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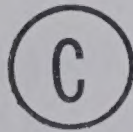


THE UNIVERSITY OF ALBERTA

UNIT COST ANALYSIS OF THE EDUCATIONAL EXPENDITURES

OF THE COUNTY OF GRANDE PRAIRIE 1969-1970

by



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A THESIS

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The undersigned certify that they have read, and recommend to the Faculty of Graduate Studies for acceptance, a thesis entitled "A Unit Cost Analysis of the Educational Expenditures of the County of Grande Prairie 1969-1970," submitted by Donald Sydney Palethorpe in partial fulfilment of the requirements for the degree of Master of Education.





## ABSTRACT

The main problem of this thesis was to conduct an analysis into the financial operation of the County of Grande Prairie for the 1969-1970 school year. Sources of data included: (1) Faculty Workload Surveys, (2) the Accounts Ledgers of the County of Grande Prairie, and (3) personal interviews.

Initial treatment of data included prorating the costs to schools and, where possible, to programs, and to subjects. Prorational and projectional methods were dependent upon expenditure classification. The final stages involved computer and manual treatment of the data to arrive at the cost per unit figures presented in this thesis.

The findings reported were: (1) the total operational costs of the County of Grande Prairie; (2) County costs per pupil; (3) cost per pupil per school; (4) cost per pupil per subject; (5) cost per pupil per subject cluster; (6) cost per pupil per subject per subject cluster per Division; and (7) cost per pupil by grade or program routes.

The costs subjected to analysis amounted to \$2,064,666.41. This represented an average cost of \$725.71 per pupil registered in The County of Grande Prairie. It was found that there were differences between costs per Divisions. This difference was attributable mainly to direct instructional costs. Extra services, indirect costs, and greater costs of Plant Operation and Maintenance





in Divisions III and IV made up the majority of the remaining differences. It was found that both total and per pupil costs were highest in the Language Arts cluster, with the exception of special courses such as Home Economics. Per grade or program costs increased beyond Divisions I and II. In Division IV little difference was found between the costs of the program routes offered.



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Thanks are also expressed to the numerous persons of the administrative staff of the County of Grande Prairie, without whose help this thesis could not have been completed.

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## Chapter I

### DESCRIPTION AND SIGNIFICANCE OF UNIT COST ANALYSIS, STATEMENT OF THE PROBLEM, LIMITATIONS AND DELIMITATIONS, AND ASSUMPTIONS

#### I. INTRODUCTION

Public school costs in Canada have increased sharply since World War II. From 1945 to 1965 the estimated average annual increase in educational expenditures was 13.5 per cent; " . . . as a proportion of the Gross National Product, educational expenditures have risen two and one-half times in the same period (Financing Education 1962:12). In 1967, 7.3 per cent of the Canadian GNP was attributed to education (Commercial Newsletter 1968:2); in 1968, the figure was estimated to be 9 per cent (Financing Education 1962:1).

Present trends indicate that expenditures for education will continue to grow. Panel Report V of the Rockefeller Brothers' Fund stated "The Nation's need for good education is immediate, and good education is expensive (Rockefeller 1968). In its publication What Everyone Should Know About Education, the National Education Association stated that "Substantial increases for schools and other educational institutions and agencies are both necessary and wise (1966:57). Hansen (1969:1) predicted that " . . . expenditures in education in Canada will continue to increase substantially during the 1970's." These increases in educational expenditures have resulted in increased interest and surveillance by the public, as is witnessed especially by recent reports of the mass media.



Two demands result from the rising costs and increased public interest. First, all available financial resources must be prudently invested. Second, all educational expenditures must be accurately summarized and analysed, with the results being meaningfully reported to both the educational system and the concerned public. The latter implies the utilization of sound and valid financial accounting principles and procedures.

Mort, Reusser and Polley (1964:40) stated that the "Accurate analysis of costs is essential to effective control of the educational enterprise and is an aid in explaining the work of the schools to those who are interested." Unit cost analysis or unit cost accounting is an approach which reflects sound financial management and can also insure the maintenance of proper public support.

The importance of cost analysis is reflected in the fact that "The first step of a program budget consists of a rigorous analysis of the organization . . . (Burke 1957:96)." This analysis, in turn, culminates in the formulation of objectives expressed in operational terms. After a suitable program structure is developed the allocation of resources and assignment of budgetary dollars can be accomplished. A major result of this process is Planned Program Budget System (PPBS), a multi-year program document and financial plan for the organization.

## II. DESCRIPTION OF UNIT COST ANALYSIS

Fowlkes and Hansen (1961:471) provided the following



definition of unit cost accounting or unit cost analysis:

Cost analysis is the process of studying the total cost of public education for a given community, state, or area for a given year; trends in total school costs; the costs of specific services or subjects, e.g., transportation or English; the cost of education by grades or levels, e.g., elementary school costs, secondary school costs; cost of maintenance; cost and bargaining abilities; cost and size of school; reasons for increased costs and need for decreased costs.

This definition indicates the uses made of unit cost analysis. Initially, cost analysis attempts to measure the amount of expenditure for programs, performance, activities, or outputs based on a standard measurable unit. Resultant per unit costs are then analysed in the light of existing conditions, objectives, and outputs of the school system. The analysed results are then used as a basis for the improvement of programs and administrative procedures.

For the purpose of this study, unit cost analysis refers to the detailed determination of educational expenditures for specific functions, activities, services or performances; the conversion of these expenditures into unit costs on a pupil enrolment basis; and the analysis of the resultant per pupil unit cost.

### III. SIGNIFICANCE OF UNIT COST ANALYSIS

Fowlkes and Hansen (1962:472) felt that unit cost analysis can result in optimum returns for educational investment:

Maximum educational opportunity within limits of financial ability and a reasonable guarantee of operating efficiency that obtains, as nearly as possible, maximum value per dollar spent for public education might well be adopted as a working charter for all those responsible for business management of





public education. Such a charter can be maintained only if financial accounting systems for schools are such that cost analyses of the type suggested can be made.

#### Adequacy of Educational Programs

Cost analysis data can be implemented in developing and maintaining an adequate educational program, particularly in an environment of change. According to Vaizey

There is no administrator in the world who has more resources than he can use; and when resources are limited, choices have to be made. It is essential that these choices are based on an accurate assessment of the cost situation (Vaizey 1967:11).

The fundamental purpose of unit cost analysis is to present and interpret cost data as an aid to the administration of public education (Knezevich 1967:204).

#### Meaningful Expenditure Data

Cost analysis can provide the public and educational personnel with an accurate picture of public costs per course, program, grade, school, or system which can be used as a basis for evaluation of the existing program.

#### School Business Management

Fowlkes and Hansen (1952:471) stated that cost analysis provides a " . . . valid basis for evaluating the competence of school business management." It allows for identical schools to be compared in order to determine which is more effective or more resourceful in planning educational expenditures.



### Public Support for Education

Cost analysis provides a breakdown through which the general public can examine current programs with a view to determining whether or not school revenues are providing for more or less than the minimum educational opportunity.

### Preparation of the School Budget

Cost analysis can play an important role in the preparation of school budgets. Instead of the budget committee providing for an estimated percentage increase or decrease, it would be possible to make specific allocations of monies to particular units. "One estimate indicates that detailed and accurate cost accounts can reduce the time and labor needed in budget preparation by 90 per cent (Ovsiew and Castetter, 1960)."

In summary, unit cost analysis studies can provide data which can assist a school jurisdiction in

1. achieving an operating efficiency which results in optimal quality, benefit, and opportunity being attained from limited resources,
2. establishing and maintaining an adequate educational program,
3. determining the adequacy or inadequacy of school revenues and expenditures,
4. meaningfully informing concerned persons about educational expenditures,
5. evaluating the competence of school business management





personnel,

6. establishing an appreciation of the public for supporting education, and
7. preparing the school budget.

#### IV. STATEMENT OF THE PROBLEM

##### The Main Problem

The main problem investigated in this study was to conduct a unit cost analysis of the County of Grande Prairie in the Province of Alberta for one complete school year. The 1969-1970 school year was selected for this analysis.

This study is only one part of a series being conducted into cost analysis in the Province of Alberta. On the basis of research conducted by Eurchuk (Eurchuk:1969) typical educational jurisdictions were selected in Alberta. Six variables were employed: total school population; equalized assessment per pupil; supplementary requisition per pupil; total expenditure per pupil; pupil-teacher ratio; and population density. The seventy-seven School Districts, School Divisions, and Counties of Alberta were placed in their respective classifications. The jurisdictions were ranked from low to high on the basis of their rankings on each individual variable. The final rankings for the Divisions and Counties were divided into approximate thirds. This resulted in high, medium, and low groups on the total variable scale. One Division and one County, approximating the mean, were selected from each of the groupings



representing high and low on the variables scale. Two Divisions and two Counties, approximating the mean, were taken from the middle group. The resultant eight Divisions and Counties were deemed representative of Divisions and Counties in Alberta. A similar method was employed for the selection of three Urban School Districts which were representative of Urban School Districts in Alberta. The County of Grande Prairie was selected as one of the two Counties approximating the mean for counties in Alberta on the total variables scale. Therefore the main problem of this study consists of a unit cost analysis of the County of Grande Prairie for the school year 1969-1970.

#### The Sub-problems

Seven sub-problems were investigated in this study, and dealt with educational expenditures in the County of Grande Prairie:

1. the total operational costs of the County of Grande Prairie,
2. the costs per pupil in the County.
3. the cost per pupil in each of the eleven schools,
4. the cost per pupil in each subject by grade division,
5. the cost per pupil per subject cluster,
6. the cost per pupil per subject cluster per division, and
7. the per pupil costs by grade or selected program routes.

The program routes in Divisions I, II, and III were the grade levels, while the programs considered in Division IV were matriculation and business programs.



1. Operating expenditures were defined in such a way as to exclude debt charges, interest, depreciation, and capital outlay.
2. Only regular day students were included; that is, the study did not take into account services provided to the handicapped, the community at large, or adult classes.

This study is idiosyncratic and therefore is appropriate for only the year and county in which the study was made.

#### Delimitations

1. The study is delimited to expenditures made in the County of Grande Prairie for the year 1969-1970.
2. The analysis of expenditures is delimited to those schools within the County of Grande Prairie.

### VI. ASSUMPTIONS

Unit cost analysis has many guiding assumptions. For the purpose of this study, several assumptions were made.

#### Proration Assumptions

1. Where personal services were concerned, the proportion of time spent in any activity, as estimated by the primary sources, was an accurate reflection of the expenditures devoted to that activity.
2. The bases chosen for prorating expenditures were equitable, adequate, and realistic.





2. The bases chosen for prorating expenditures were equitable, adequate, and realistic.

#### Other Assumptions

1. The records from which necessary cost data and related information were taken were complete and accurate.
2. Any expenditure category resulting in a County per pupil cost of less than twenty-five cents is insignificant for the purpose of determining per pupil cost.
3. The various estimated functional-character object unit costs of education per enrolled pupil are comparable among schools included in the study.
4. The bases chosen for projecting expenditures were equitable, adequate, and realistic.

### VII. SIGNIFICANCE OF THE STUDY

A series of research projects is being jointly conducted under the auspices of the Department of Education of the Government of Alberta. The Department of Educational Administration, University of Alberta, is responsible for conducting the total project. The definition of the project appears in an Order in Council of the Province of Alberta. One of the initial stages consists of "Establishing the costs of programs in various types of school organizations. . . ." It is to this problem that this research was devoted.



Unit cost analysis is important for at least two reasons:

(1) it provides detailed cost data which may be used by system decision-makers when establishing priorities and allocating funds, and (2) it provides educational cost data for the provincial Department of Education, which may be useful for establishing guidelines for the allocation of provincial funds to public education.

### VIII. SUMMARY

The costs of public school education have risen sharply since World War II. This has resulted in increased public interest and concern, hence leading to the need for school administrators to plan educational expenditures more wisely and to report them in a more meaningful way. Cost accounting and unit cost analysis can be used to meet these goals.

Unit cost analysis is a process for the determination of educational expenditures for specific functions, activities, services, and/or performances; the conversion of these costs into per enrolled pupil unit costs; the examination and analysis of the resultant per enrolled pupil costs; and the analysis of these various costs.

The main problem of this study was to conduct a unit cost analysis of the educational-financial operations of the County of Grande Prairie for the 1969-1970 school year.

The sub-problems to be investigated dealt with the determination of per enrolled pupil educational costs (1) in the





County of Grande Prairie, (2) in each grade division in the County of Grande Prairie, (3) in each subject taught, (4) in each subject cluster, and (5) in various program routes or areas offered by the County of Grande Prairie school authority.



## Chapter 2

### THE RESEARCH DESIGN

#### I. INTRODUCTION

This study is idiosyncratic to the County of Grande Prairie. However, it is part of a major cost analysis project being conducted in ten school systems in the Province of Alberta. Future use entails its inclusion in this major project and hence uniformity is necessary. One of the most recent cost analyses completed in Alberta was done by Myroon (1969). In this study (1969:15) the author stated that

The first stage of this study was to design a model which would establish a uniform methodology upon which this and other cost analyses could be based. The design of such a model was of importance for two salient reasons. First, before any unit cost analysis could be undertaken, a plan or design must be drafted to establish the parameters of the study as well as to set specific procedures and methods. Secondly, the unit costs of one school or system are frequently compared with another. All too often there is no valid basis for making comparisons or drawing inferences because of lack of uniformity in each analysis. That is to say, cost analysis procedures must be uniform in all aspects before useful and meaningful interpretations, comparisons, and inferences can be made.

The methodology employed for this study is similar to that employed by Myroon, with changes only where circumstances in the County of Grande Prairie dictated the need for change. The procedure employed was adopted to ensure uniformity required in prorating procedures, data collection, terminology, classification, appropriate units for cost expression, and a synchronized accounting system. Knezevich and Fowlkes (1960:153) stated that " . . . there



can be no meaningful and comparable data on educational costs among school systems . . . unless there is uniformity in accounting terminology and procedures."

This chapter presents the general design and standards necessary for comparable unit cost accounting in Alberta schools. It is based on a methodology used by Myroon (1969).

## II. STAGES IN UNIT COST ANALYSIS

The design for a meaningful unit cost analysis is comprised of three distinct stages:

### 1. Preparation in Advance

- a. development of uniform terminology,
- b. establishment of an adequate accounting system based upon a uniform classification of expenditures,
- c. determination of the accounting bases: cash or accrual.

### 2. Unit Costing (Procedural Methodology)

- a. determination of the period of time for which the expenditure figures are to be computed,
- b. determination of the appropriate pupil unit to be used,
- c. determination of the areas to be included in a per unit expenditure figure (subjects, programs, and grade levels or divisions, and schools),
- d. determination of the proration basis, standard, or statistic to be used in allocation of expenditures





to schools and areas,

- e. determination and projection of actual costs,
- f. estimate chosen per pupil costs of specified area.

### 3. Findings and Analysis

- a. extrapolation of the major findings,
- b. analysis of findings and cost data to make comparisons, produce findings, and draw inferences.

## III. DEFINITIONS

### Development of Uniform Terminology

Costs and expenditures. Costs and expenditures will be used interchangeably to mean that amount of money or money's worth incurred, whether paid or unpaid (accrual basis), for any item of property or service.

Cost analysis, unit cost analysis, and cost accounting. Cost accounting refers to

That method of accounting which provides for assembling and recording of all elements of cost incurred to accomplish a purpose, to carry on an activity or operation, or to complete a unit of work or a specific job (DeYoung 1946:220).

Unit cost analysis or unit cost accounting refer to the detailed determination of designated educational expenditures for specific functions, activities, services, or performances; the conversion of these expenditures into unit costs on a pupil enrolment basis; and the examination and analysis of the resultant per pupil unit costs.

Salary. The total amount regularly paid or stipulated to be



paid to an employed individual, before deductions, for personal services rendered while on the payroll of the school district.

Expenses. Expenditures incurred by employees for non-salary items.

Prorations. The allocation of parts of a single expenditure to two or more different accounts in proportion to the benefits which the expenditure provides for the purpose or program area for which the accounts were established (DeYoung 1946:229).

Accrued expenditures. Expenses which have been incurred, but which have not been paid as of a given date.

Performance-based unit cost analysis expenditure classification. This study employed the broad concept of performance classification as interpreted by Benson (1963:484) and Burkhead (1964:488). Benson and Burkhead indicated that performance classifications make use of all systems of expenditure classification (function, character, object, and location). The performance-based classification of educational expenditures used in this study involves the amalgamation of these systems. Cutler (1967:252) suggested that the performance approach is intended to bring correspondence between expenditure categories and the most direct objectives of education.

Further justification of this concept was provided by Atherton (1968:9): "A crude measure of output was considered as the completion of a student year in a given program." In view of



this statement, it can be stated that the approach of this unit cost analysis study is performance-based, since it classifies expenditures by functions and activities and analyzes these expenditures in terms of outputs.

FIGURES 1, 2, 3, and 4 represent the expenditure classifications used in this study. FIGURE 1 presents the broadest classification of expenditures. Certain areas have been excluded, either because of the diversity in financing (for example, Food Services and Student Body Activities), or because of the lack of relationship to the education of regular school pupils (for example, Community Services, Capital Outlay, and Debt Service). Also, Health Services and Attendance Service classifications are excluded from this study because they are not applicable to the County of Grande Prairie.

FIGURE 2 shows the breakdown of the broad classifications in FIGURE 1. These were used for classifying all educational expenditures in this thesis.

FIGURE 3 shows the grade levels that fall into the Divisions referred to in this study.

FIGURE 4 shows which categories constitute the unit cost analysis in this study.

#### Determining the Bases of Accounting: Cash or Accrual

Under the accrual system, expenditures are recorded as incurred when the services have been rendered or the goods received. Cash accounting refers to a system whereby expenditures and revenues





| Series Coding Number | Type of Expenditure             |
|----------------------|---------------------------------|
| Series 100           | ADMINISTRATION                  |
| 200                  | INSTRUCTION                     |
| 500                  | PUPIL TRANSPORTATION<br>SERVICE |
| 600                  | PLANT OPERATION                 |
| 700                  | PLANT MAINTENANCE               |
| 800                  | FIXED CHARGES                   |
| 1400                 | OUTGOING TRANSFER<br>ACCOUNTS   |

FIGURE 1

CLASSIFICATION OF EXPENDITURES<sup>a</sup><sup>a</sup>Adopted from Reason and White (1966:Chapter 3).



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|         |                                   |
|---------|-----------------------------------|
| Series: | 100 ADMINISTRATION                |
|         | a. Salaries                       |
|         | b. Expenses                       |
|         | 200 INSTRUCTION                   |
|         | a. Direct Salaries                |
|         | (1) instruction                   |
|         | b. Indirect Salaries              |
|         | (1) administration                |
|         | (2) clerical                      |
|         | (3) guidance counselor            |
|         | (4) substitutes                   |
|         | (5) intern teachers               |
|         | (6) librarian costs               |
|         | (7) bursaries                     |
|         | c. Indirect-Direct Expenses       |
|         | (1) textbooks                     |
|         | (2) library                       |
|         | (3) instructional supplies        |
|         | (4) equipment                     |
|         | (i) science                       |
|         | (ii) physical education           |
|         | (5) correspondence courses        |
|         | (6) industrial arts supplies      |
|         | (7) home economics supplies       |
|         | (8) others                        |
|         | 500 PUPIL TRANSPORTATION SERVICES |
|         | 600 PLANT OPERATION               |
|         | a. Salaries                       |
|         | b. Utilities                      |
|         | c. Supplies                       |
|         | d. Central Office                 |
|         | e. Others                         |
|         | 700 PLANT MAINTENANCE             |
|         | 800 FIXED CHARGES                 |
|         | 1400 OUTGOING TRANSFER ACCOUNTS   |

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FIGURE 2

BREAKDOWN OF EXPENDITURE CLASSIFICATIONS<sup>a</sup><sup>a</sup>Adopted from Reason and White (1966:Chapter 3).



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|                   |     |   |                           |
|-------------------|-----|---|---------------------------|
| Division or Level | I   | - | grades 1 to 3 inclusive   |
| Division or Level | II  | - | grades 4 to 6 inclusive   |
| Division or Level | III | - | grades 7 to 9 inclusive   |
| Division or Level | IV  | - | grades 10 to 11 inclusive |

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FIGURE 3

GRADE LEVEL CLASSIFICATION  
BY DIVISION<sup>a</sup>

<sup>a</sup>In succeeding pages, Divisions I, II, III, and IV  
will refer to the grades mentioned above.





Per Enrolled Pupil Unit Costs Based on Location  
Classification for a Complete School Year

| Classification | Each<br>School | Grade<br>Divisions<br>in System | Grade<br>Divisions<br>in Schools | All<br>Subjects | Program<br>Routes &<br>Subjects |
|----------------|----------------|---------------------------------|----------------------------------|-----------------|---------------------------------|
| 100            |                |                                 |                                  |                 |                                 |
| a.             | X <sup>a</sup> | X                               |                                  |                 |                                 |
| b.             | X              | X                               |                                  |                 |                                 |
| 200            |                |                                 |                                  |                 |                                 |
| a.             |                |                                 |                                  |                 |                                 |
| 1.             | X              | X                               | X                                | X               | X                               |
| b.             |                |                                 |                                  |                 |                                 |
| 1.             | X              | X                               |                                  |                 |                                 |
| 2.             | X              | X                               |                                  |                 |                                 |
| 3.             | X              | X                               |                                  |                 |                                 |
| c.             |                |                                 |                                  |                 |                                 |
| 1.             | X              | X                               |                                  |                 |                                 |
| 2.             | X              | X                               |                                  |                 |                                 |
| 3.             | X              | X                               |                                  |                 |                                 |
| 4.             | X              | X                               |                                  |                 |                                 |
| i.             | X              | X                               | X                                | X               | X                               |
| ii.            | X              | X                               | X                                | X               | X                               |
| 5.             | X              | X                               |                                  |                 |                                 |
| 6.             | X              | X                               |                                  |                 |                                 |
| 500            | X              |                                 |                                  |                 |                                 |
| 600            |                |                                 |                                  |                 |                                 |
| 1.             | X              | X                               |                                  |                 |                                 |
| 2.             | X              | X                               |                                  |                 |                                 |
| 3.             | X              | X                               |                                  |                 |                                 |
| 700            | X              | X                               |                                  |                 |                                 |
| 800            | X              | X                               |                                  |                 |                                 |
| 1400           | X              | X                               |                                  |                 |                                 |

FIGURE 4

## SUMMARY OF CATEGORIES ANALYZED

<sup>a</sup>Note: an "X" indicates that a unit cost analysis was performed in that category.



are entered only when payment has been made or has been received.

The County of Grande Prairie utilizes the cash basis due to its simplicity of operation. This necessitated the utilization of a modified cash-accrual system of extracting cost data. The costs were extracted only for the period of time involved in the study, irrespective of entries, in order to ensure an accurate account of actual costs for the specified period of time. Employing this system involved checking the invoices that correspond to the entered cost figures on the ledger sheets to determine the date of expenditure.

#### Defining Expenditure Classification Items

100 administration. Administration consists of those activities which have as their purpose the general regulation, direction, and control of the affairs of the school district. This is system-wide and is not confined to one subject or phase of school activity.

200 instruction. Instruction includes those accounts which deal directly with, or aid in, the teaching of students or the improvement of the quality of instruction. Personnel such as the teacher, building principal and vice-principal, consultants, guidance personnel, librarians, audio-visual personnel, department heads, substitute teachers, temporary teachers, part-time teachers, interns, and pre-interns are all included in this classification.

200 (a) direct salaries. Direct salaries include full-time



salaries as well as prorated portions of salaries for all teaching services rendered to pupils in the school system.

200 (b) indirect salaries. Indirect salaries include the full-time or prorated portions of salaries of personnel who are only indirectly concerned with instruction. Administrators, department heads, and librarians are examples of personnel that fall into this category.

200 (c) direct-indirect expenses. This classification includes all expenses incurred for teaching activities or for the improvement of instruction, either directly or indirectly. Text-book expenditures [classification notation 200 (c) 1.] involve the net cost to the school board. School library expenditures [200 (c) 2.] include regular or incidental expenses, but exclude expenses for new or expanded facilities. Linn (1965) suggested one method of separating supplies [200 (c) 3.] and equipment [200 (c) 4.]. School supplies will refer to those expenditures which are utilized in the teaching-learning process, including freight and cartage, specifically defined as all those items which cannot be labelled as science or physical education equipment. All other types of supplies will be considered as belonging to the category "Instructional Supplies." Correspondence course expenditures [200 (c) 5.] are those brought about by reimbursement of a registration fee to a student enrolled in a correspondence course. Other expenditures [200 (c) 8.] are those which cannot readily be allocated to another expense category. Those expenditures incurred through providing





industrial arts supplies are classified under 200 (c) 6.; those incurred through providing home economics supplies are classified under 200 (c) 7.

500 pupil transportation services. This category is concerned with the conveyance of pupils to and from school activities, either between home and school or on trips for curricular or co-curricular activities.

600 operation of plant. This category includes expenses incurred for those housekeeping activities as are repeated somewhat on a daily, weekly, monthly, or seasonal basis. The term "plant" refers to all buildings operated and maintained by and for the school system. Repairs and replacement of equipment and facilities are excluded. Central office [600 (d)] refers to costs incurred in the physical operation of the central office building.

700 plant maintenance. This category includes expenses incurred by those activities concerned with keeping grounds, buildings, and equipment in their original condition of completeness or efficiency.

800 fixed charges. Fixed charges include those expenditures of a generally recurring nature which are not readily allocatable to other expenditure accounts. This includes costs such as employee insurance, property insurance, liability insurance, and rent and tax on land and buildings.



1400 outgoing transfer accounts. This category includes any expenditures made to other school districts or administrative units.

#### Defining Location and Performance Classifications

Location classification. This classification refers to the schools within a school district. In some studies, a sampling of the schools was costed. All eleven schools in the County of Grande Prairie were costed.

Performance classification. One category of performance is by grade level. Grade levels were also combined into Divisions as shown in FIGURE 4. It was assumed that educational expenditures in the various grade levels and Divisions vary significantly.

A second categorization by performance includes all individual subjects offered in the school costed. While it was possible to allocate "Direct Instructional" costs to individual subjects, most of the remaining expenditure categories were costed to grade levels.

### IV. UNIT COSTING (PROCEDURAL METHODOLOGY)

#### Determining the Period of Time for Per Pupil Expenditures

This study used the computation of per pupil expenditures on an annual basis for Divisions I, II, III, and IV, as recommended by Reason and White (1966). In cases where Divisions III and IV were semestered, each semestered course was treated as if it were instructed for a full year for one-half of the time indicated on the



Faculty Workload Survey.

#### Determination of an Appropriate Pupil Unit

According to Johns and Morphet (1952), Average Daily Enrolment or Average Daily Membership is the best per pupil unit for measurement. Unfortunately this study was unable to utilize this measurement, since the method used for recording attendance did not permit the use of this statistic. As the data were collected prior to completion of the school term, enrolment as of February 7, 1970, which was the date for the Faculty Workload Survey, was used.

#### Determination of Proration Bases for Each Expenditure Series

Equitable proration of costs is probably the greatest single problem area in cost analysis studies. To standardize methodology, Myroon's proration methods were generally employed. These were in part modified to suit the local situation. A summary of Myroon's proration methods (Myroon 1969) and definitions and examples of the methods employed in the study are presented below.

Time method. This method of proration allocates the expenditure of a given activity in proportion to the time spent in each given activity. For example, a teacher who teaches grade seven science three periods a day and grade eight English three periods a day, and who serves as a stand-by substitute for one period a day, would have her salary allocated as follows: 43 per cent would be allocated to grade seven science, 43 per cent to grade eight English, and the remaining 14 per cent to substitute services.





Time-membership method. This method of proration allocates a given expense to various activities based on the proportion of membership engaged in those activities and on the time spent by pupils in those activities. Consider a teacher in a combined grade five and six classroom. If the amount of time devoted to each pupil is equal, then the proportion of the teacher's salary allocated to each grade will be equal. If, however, the amount of time varies because of the varying membership of the grade levels, then the teacher's salary will be allocated proportionately.

Number-of-registered-rooms method. Prorating on the basis of the number of rooms allocates a part of an expenditure to a specified grade level or school in proportion to the number of registered home rooms either of that grade or in the school.

Actual-expenditure method. Actual expenditures allocate costs to a given activity in proportion to the actual expenditures for a commodity chargeable to that activity.

Number-of-pupils method. This proration method allocates expenditures in proportion to the actual number of pupils. This method is often used when all other methods are inapplicable.

As has been previously noted, it is extremely important that the most appropriate proration method be chosen. Evans (1955:43) referred to this principle as the criterion of equity and adequacy. The proration basis should reflect the actual cost of the various activities in a realistic and accurate manner. Practicality is yet



another important consideration. All proration bases, standards, or methods in this study were chosen with the assumption that they were equitable, adequate, realistic, accurate, and practical.

Table 1 summarizes the proration methods chosen for the allocation of expenditures to various schools, grade levels, and subject.

Proration calculations. The general proration formula developed by Evans (1955:45-6) was employed as much as possible. According to this formula,

$$X = \frac{A}{C} \times B \quad \text{where}$$

X = exact cost allocated to a school, grade level, or subject for a specified activity or service;

A = quantity of unit used only in the school, grade level, or course;

B = expense allocated to a school, grade level, or subject for a given activity or service;

and C = total quantity of unit used in the school district, school, grade level, or subject for a given activity or service.

Consider, for example, a librarian who spends fifty per cent of her time in Division IV. Her salary is \$10,000.00. The amount of money allocated to "Library Services" in Division IV is \$5,000.00. All proration calculations in this study were made on the same basis.

#### Determination and Estimation of Actual Costs

The accrued costs for each expenditure account must be procured in this stage, thus necessitating the use of ledger sheets, payroll summary sheets, and reference invoices. All personnel



Table 1

Proration Method Utilized in Allocating Expenditures,  
Grade Levels, and Subjects

| Expenditure Series              | Proration Method* |             |         |
|---------------------------------|-------------------|-------------|---------|
|                                 | School            | Grade Level | Subject |
| 100 ADMINISTRATION              |                   |             |         |
| a. salaries                     | AE&T              | T&NP        |         |
| b. expenses                     | NR                | NP          |         |
| 200 INSTRUCTION                 |                   |             |         |
| a. direct salaries              |                   |             |         |
| (1) instruction                 | AE                | AE          | T       |
| b. indirect salaries            |                   |             |         |
| (1) administration              | AE                | T&NP        |         |
| (2) clerical                    | AE                | NR&NP       |         |
| (3) guidance counsellors        | T                 | T&NP        |         |
| (4) librarians                  | AE                | NP          |         |
| c. expenditures--               |                   |             |         |
| direct, indirect                |                   |             |         |
| (1) textbooks                   | AE                | NP          |         |
| (2) library                     | AE                | NP          |         |
| (3) instructional supplies      | AE&NP             | AE&NP       | NP      |
| (4) equipment                   | AE&NP             | AE&NP       | NP      |
| (5) others                      | NP                | NP          |         |
| 500 PUPIL TRANSPORTATION        | AE                | NP          |         |
| 600 PLANT OPERATION             |                   |             |         |
| a. salaries                     | AE                | NP          |         |
| b. utilities                    | AE                | NP          |         |
| c. supplies                     | NR                | NP          |         |
| d. central office               | NR                | NP          |         |
| 700 PLANT MAINTENANCE           | AE&NP             | NP          |         |
| 800 FIXED CHARGES               | NP                | NP          |         |
| 1400 OUTGOING TRANSFER ACCOUNTS | NP                | NP          |         |

\*Legend: T - time

NP - number of pupils

NR - number of registered rooms

AE - actual expenditures





engaged in educational activities had to be categorized into their appropriate expenditure classification.

#### Determination and Estimation of Chosen Per Pupil Costs

This stage involved all calculations required for determining per pupil costs for various activities. The proration calculations for allocating expenditures to the various schools, grade levels, and subjects had to be made. Most work in this stage was done by computer.

### V. FINDINGS AND ANALYSIS

Significance, for the purposes of this study, is not based on a specific correlation or relationship between variables under discussion. Rather, significance is based on the reasons for the differences among the findings.

On the basis of the data contained in the tables, comparisons, predictions, and inferences were made.

### VI. SUMMARY

This unit cost analysis is part of a major study being undertaken in the Province of Alberta. The methodology established by Myroon (1969) was used where possible in order to ensure uniformity among the studies. Changes were made only where local conditions necessitated deviation from the established model.



## Chapter 3

### DATA SOURCES, COLLECTION, AND TREATMENT

#### I. INTRODUCTION

This study applied a cost analysis model to the operational expenditures of the County of Grande Prairie Public School System for the 1969-1970 school term. Sources of expenditure data had to be ascertained and the relevant data procured. Information relevant to staff workload was gathered through a Faculty Workload Survey (see Appendix E). In almost every case the expenditure data source was the ledgers of the County. Any additional information required was supplied by the Secretary-Treasurer, the Assistant Secretary-Treasurer, or the Superintendent of Schools.

The expenditure data had to undergo two processes prior to analysis. The first of these processes was the application of prorational methods to allocate costs to specific schools and grades in these schools, as well as to programs and subjects where this was possible. The second process dealt with projecting costs until the end of the school term, August 31, 1970. The proration and projection methods differed according to the expenditure. The methods employed are outlined in the following section.

#### II. DETERMINATION AND PRORATION OF ACTUAL COSTS

In general, each projection method was established by the Secretary-Treasurer working in conjunction with the researcher.



Depending upon the information available and the nature of the expenditure (recurrent, seasonal, or single cost), the method of each projection was done in the most meaningful way possible. In order to ensure accuracy, each cost was reviewed by the Secretary-Treasurer or the Assistant Secretary-Treasurer of the County. While this method may be subject to error, it was assumed that the familiarity of the Secretary-Treasurer and the Assistant Secretary-Treasurer with the data, and the determination of the most accurate means of projection, would result in accurate projection figures.

#### 100 a. Administrative Salaries

Proration. It was determined by interview with the Superintendent that the Superintendent's salary should be charged equally to Divisions I, II, III, and IV. The Superintendent's salary and all other administrative salaries were prorated to the schools on a classroom basis.

Projection. Salaries represent a regular monthly payment which showed little variation from one month to another. Projecting the costs from March 31, 1970, to August 31, 1970, simply entailed multiplying the monthly cost times the number of months remaining.

#### 100 b. Administrative Expenses

Proration. These are costs of administering education throughout the County. Costs are prorated to schools according to the number of classrooms, on the assumption that a larger school





requires more administration.

Projection. The method of projection for each expenditure had to be determined individually to ensure accuracy. Items such as payments for Trustees' Board Meetings were of a regular nature and could be projected on a monthly basis. Other items, such as legal costs, were single cost items and were accepted as actual costs, with allowances made for any expected services prior to August 31. Still other costs, such as Teacher Recruitment, were difficult to establish; in such a case expected expenditures as projected by the Assistant Secretary-Treasurer, were accepted as real expenditures.

#### 200 a. Direct Salaries

Proration. These costs were prorated to individual courses on the basis of the amount of time during which each teacher was directly involved in each course.

Projection. No projection of these costs was necessary as the data provided actual costs for the period from September 1, 1969, to August 31, 1970.

#### 200 b. Indirect Salaries

Proration. Administrative, guidance counselling, and clerical salaries were prorated to grade level on the basis of time spent on each grade level with the number-of-pupils method being used on the unallocatable portion. Costs incurred by substitutes were charged out as actual costs to each school. Interns were chargeable to



specific schools. There were no bursaries. Librarian costs were prorated to the schools on the basis of time spent in each grade level. The number-of-pupils method was used on the unallocatable portion.

Projection. Salaries of administrators, clerical staff, guidance counsellors, librarians, and department heads did not require projections, since they represent annual salaries or portions thereof. Substitute costs were projected on the number of days left until the end of June, taking into consideration the improvement in teacher attendance in June. Intern costs were chargeable to the schools involved.

#### 200 c. Expenditures, Direct and Indirect

Proration. The County's ledger system did not allow for accurate charges to be made to subjects or grades. Therefore, instructional supplies and equipment and the general unallocatable classification [200 c. (4)] were charged to individual schools and prorated using the number-of-pupils method. Textbooks were charged on a per pupil basis using the per pupil allowance provided by the County as a basis.

Projection. Textbooks, library books and supplies, and instructional supplies and equipment for the remainder of the school year had been received before the study was conducted, and projection was therefore unnecessary.



### 500 Pupil Transportation Services

Proration. All transportation costs were chargeable directly to each school on the basis of buses per school. Therefore each school was costed out and total individual school costs were prorated on a per pupil basis.

Projection. Regular bus transportation was a combination of contract service and service provided directly by the County. Each school was charged directly according to the number of buses used. In the case of contracted service, the total cost was already established and therefore no projection was necessary. In the case of services provided by the County, total costs were divided proportionately among the schools on the basis of the number of buses used by each school. An average monthly cost for each school was determined and on this basis costs for each school were projected to the end of the school year.

### 600 Plant Operation

Proration. Salaries, supplies, and utilities were recorded as direct school costs. Proration was done on a per pupil per school basis.

Projection. Salaries were determined by annual agreement. Projection to August 31 was accomplished by multiplying the monthly cost by the number of remaining months. Utilities costs from April 1 to August 31, 1970, were assumed to approximate the same





time period of 1969. Supplies for all buildings were ordered in bulk and no more were ordered in the 1969-1970 school term. Therefore no projection was necessary.

#### 700 Plant Maintenance

Proration. Repairs and maintenance to buildings, equipment, and grounds were recorded as actual costs per school. Proration was done on a per pupil basis.

Projection. Projection costs in this classification were determined by the County's Head of Maintenance.

#### 800 Fixed Charges

Proration. Insurance costs appeared as a sum total in the ledgers and were prorated to each school on a per classroom basis. Rent and taxes, which included teacherages, were charged directly to the schools. Both costs were prorated on the number-of-pupils basis.

Projection. Rent for the school year was determined by multiplying the average monthly cost by the number of months remaining. Rent and taxes were budgeted on the fiscal year. To determine these costs, one-third of the actual amount of 1969 had to be added to two-thirds of the budgeted amount of the 1970 fiscal year.

#### 1400 Outgoing Transfer Accounts

Proration. This classification included tuition and boarding



allowances. These were charged directly to the school from which the student came, and were prorated by the number-of-pupils method.

Projection. The monthly projection rate was considered to be the best for calculating boarding allowances. Tuition had already been paid, hence there was no need to project.

### III. TREATMENT OF THE DATA

Once the expenditure data were prorated and projected, they were prepared for computer analysis, by being (1) coded on sheets, and (2) punched on computer cards.

The analysis used a cost analysis computer program--COSTANØ1--developed by G. B. Hawley and C. Prokop, which was made available through the Department of Educational Administration, University of Alberta. This program computed direct per pupil costs on a course, program, or school basis. Indirect and implementary per pupil costs were computed manually.

### IV. SUMMARY

The purpose of this chapter was to outline the sources, collection, and treatment of the data. Sources of data included: (1) the Faculty Workload Survey, (2) the Accounts ledgers of the County of Grande Prairie, (3) personal interviews, and (4) material published by the County. The initial treatment of the data included prorating costs to schools, programs, and subjects, and projecting these costs to August 31, 1970. The methods employed for various



expenditure classifications were also reported.





## Chapter 4

### PER PUPIL COSTS

#### I. INTRODUCTION

The purpose of this chapter is to present findings pertinent to the sub-problems outlined in Chapter 1:

1. the total operational costs of the County of Grande Prairie,
2. the cost per pupil in the County,
3. the cost per pupil in each of the eleven schools,
4. the cost per pupil in each subject by grade division,
5. the cost per pupil per subject cluster,
6. the cost per pupil per subject cluster per division, and
7. the per pupil costs by grade or selected program routes.

The costs analyzed are for the 1969-1970 school year in the County of Grande Prairie, and are confined to the expenditure classifications indicated above.

#### II. DETAILS OF TOTAL EXPENDITURES

Capital outlay and debt service costs have been excluded from this analysis. This approach to cost analyses is accepted practice; its justifications are well documented.

The following sections report expenditures on a per pupil basis. If analyses are to allow comparisons, steps must be taken to ensure that expenditures reported parallel those of other cost



analysis studies presently being undertaken. The terminologies, methodologies, and per unit costs used in this report were defined in Chapters 2 and 3.

### III. ESTIMATED TOTAL EXPENDITURES IN PERCENTAGES AND COST PER PUPIL

The total operational costs of the County of Grande Prairie calculated on the basis of general classification for the 1969-1970 school term (see Table 2, p. 40) were \$2,064,666.41. This amounted to an estimated per pupil cost of \$725.71. Instructional costs amounted to 65.15 per cent of the total expenditures, or \$1,240,152.57. This large percentage was attributed to the fact that the largest part of this general classification--direct salaries--accounted for 55.81 per cent of the total costs, or \$1,153,117.83.

This classification did not include that portion labelled "indirect salaries" (200 b.) which accounted for 5.65 per cent of the total, or \$106,520.77. Contrary to common practice, indirect salaries are not considered to be part of the instructional costs.

Transportation costs amounted to \$363,930.36, or 17.60 per cent of the total expenditures, because of the many long and therefore expensive transportation routes in the County of Grande Prairie.

Plant operation accounted for 7.60 per cent, or \$166,890.26, of the total expenditures, while plant maintenance represented 3.45 per cent, or \$71,326.31.

The three remaining classifications of administration, fixed charges, and out-going transfer accounts accounted for less than



Table 2

Average Estimated Per Pupil Costs in the County of Grande Prairie  
by Specified Expenditure Classification: 1969-1970

| Expenditure Series               | Estimated Total<br>Expenditures | % of<br>Expenditure  | Estimated Cost<br>Per Pupil |
|----------------------------------|---------------------------------|----------------------|-----------------------------|
| 100 ADMINISTRATION               |                                 |                      |                             |
| a. Salaries                      | (60,010.24)                     | ( 2.92) <sup>1</sup> | ( 20.10)                    |
| b. Expenses                      | 39,443.75                       | 1.92                 | 13.87                       |
|                                  | 20,566.49                       | 1.00                 | 7.23                        |
| 200 INSTRUCTION                  | (1,356,673.34)                  | (70.80)              | (446.26)                    |
| a. Direct salaries               | 1,153,117.83                    | 55.81                | 405.31                      |
| b. Indirect salaries             |                                 |                      |                             |
| (1) administration               | 81,977.94                       | 3.97                 | 28.81                       |
| (2) clerical                     | 28,623.56                       | 1.39                 | 10.06                       |
| (3) counsellors                  | 5,919.27                        | .29                  | 2.08                        |
| c. Expenses, Direct and Indirect |                                 |                      |                             |
| (1) textbooks                    | 13,456.32                       | .65                  | 4.73                        |
| (2) library                      | 16,646.34                       | .81                  | 5.85                        |
| (3) instructional supplies       | 27,011.24                       | 1.31                 | 9.49                        |
| (4) equipment                    |                                 |                      |                             |
| (i) science                      | 16,029.66                       | .78                  | 5.63                        |
| (ii) P.E.                        | 7,921.46                        | .38                  | 2.78                        |
| (5) correspondence               | 752.63                          | .04                  | .26                         |
| (6) other                        | 12,347.10                       | .60                  | 4.34                        |

<sup>1</sup>Parentheses denote cost for General Classifications. The figures without parentheses represent breakdowns for the sub-classifications. In series 500, 700, 800, and 1400 there are no sub-classifications and therefore these figures are to be considered in both General and/or Specific Analyses.





Table 2 (continued)

| Expenditure Series              | Estimated Total Expenditures | % of Expenditure | Estimated Cost Per Pupil |
|---------------------------------|------------------------------|------------------|--------------------------|
| 500 PUPIL TRANSPORTATION        | (363,930.36)                 | (17.63)          | (127.92)                 |
| 600 PLANT OPERATION             | (166,890.26)                 | ( 7.60)          | ( 58.66)                 |
| (1) salaries                    | 64,162.39                    | 3.11             | 22.55                    |
| (2) utilities                   | 91,605.98                    | 4.44             | 32.20                    |
| (3) supplies                    | 11,121.89                    | .05              | 3.91                     |
| 700 PLANT MAINTENANCE           | (71,326.31)                  | ( 3.45)          | ( 25.07)                 |
| 800 FIXED CHARGES               | (17,499.25)                  | ( .85)           | ( 6.16)                  |
| 1400 OUTGOING TRANSFER ACCOUNTS | (21,216.64)                  | ( 1.03)          | ( 7.46)                  |
| TOTALS                          | 2,064,666.41                 | 99.51            | 725.71                   |



6.00 per cent of the total cost.

A breakdown of the general classifications into sub-classifications led to more specific percentage costs. Direct instructional costs, that is, teachers' salaries, amounted to 55.81 per cent or \$1,153,177.83 of the total expenditures since teaching is labor intensive, while school administration represented 3.97 per cent, or \$81,977.94. Plant maintenance accounted for 3.45 per cent, or \$71,326.31; plant salaries accounted for 3.11 per cent or \$64,162.39; utilities accounted for 4.44 per cent or \$91,605.98; and instructional supplies and equipment accounted for 4.57 per cent of the total, or \$94,164.75.

Per pupil costs ranged from a high of \$403.31 for direct instruction to a low of \$0.26 for correspondence courses. The reason for the high cost of direct instruction has already been discussed; the low cost for correspondence courses is mainly due to the small number of pupils engaged in this activity. Pupil transportation, the next highest cost, amounted to \$127.92 per pupil due to the long distances travelled by the majority of students. Administration costs amounted to \$21.10 per pupil; indirect salaries amounted to \$40.95 per pupil. These lower per pupil costs are due mainly to the high per pupil ratio. No per pupil cost of less than twenty-five cents resulted in any expenditure category; for this reason no classification was eliminated.

#### IV. TOTAL EXPENDITURES PER SCHOOL

Table 3 presents expenditures of the County of Grande Prairie



Table 3

Total Operational Costs Allocated to Each of the Eleven Schools  
in the County of Grande Prairie: 1969-1970

| Expenditure Series               | Valhalla  | La Glace  | Costs Per School |           |           | Elmworth  | Wembley |
|----------------------------------|-----------|-----------|------------------|-----------|-----------|-----------|---------|
|                                  |           |           | Teepee Creek     | Bezanson  |           |           |         |
| 100 ADMINISTRATION               |           |           |                  |           |           |           |         |
| a. Salaries                      | 1,714.92  | 1,746.28  | 1,636.19         | 1,775.72  | 1,714.56  | 3,669.16  |         |
| b. Expenses                      | 843.51    | 1,208.39  | 896.04           | 943.48    | 855.93    | 2,076.68  |         |
| 200 INSTRUCTION                  |           |           |                  |           |           |           |         |
| a. Direct salaries               |           |           |                  |           |           |           |         |
| (1) instruction                  | 44,645.58 | 57,502.08 | 44,036.96        | 35,282.65 | 43,994.88 | 93,512.47 |         |
| b. Indirect salaries             |           |           |                  |           |           |           |         |
| (1) administration               | 2,158.53  | 2,640.28  | 2,633.10         | 2,563.67  | 2,332.44  | 7,895.15  |         |
| (2) clerical                     | 1,187.61  | 1,147.30  | 2,067.18         | 1,190.68  | 696.54    | 2,851.40  |         |
| (3) counsellors                  |           |           | 217.46           |           |           |           |         |
| (4) librarians                   | 1,097.20  | 555.75    |                  |           | 579.60    | 2,657.20  |         |
| c. Expenses, Direct and Indirect |           |           |                  |           |           |           |         |
| (1) textbooks                    | 441.75    | 707.75    | 622.25           | 389.34    | 526.68    | 1,291.20  |         |
| (2) library                      | 463.14    | 931.25    | 905.21           | 470.71    | 731.88    | 1,339.62  |         |
| (3) instructional supplies       | 329.22    | 806.09    | 1,878.54         | 922.88    | 1,980.18  | 4,425.05  |         |
| (4) equipment                    |           |           |                  |           |           |           |         |
| (i) science                      | 843.51    | 531.93    | 1,147.56         | 1,216.43  | 541.50    | 1,697.39  |         |
| (ii) P.E.                        | 2,109.24  | 192.21    | 193.88           | 176.13    | 231.42    | 266.31    |         |





Table 3 (continued)

| Expenditure Series                | Valhalla  | La Glace   | Costs Per School |           |           | Wembley    |
|-----------------------------------|-----------|------------|------------------|-----------|-----------|------------|
|                                   |           |            | Teepee Creek     | Bezanson  | Elmworth  |            |
| (5) correspondence courses        |           |            |                  |           |           | 145.26     |
| (6) other                         | 330.15    | 488.72     | 395.62           | 534.57    | 476.52    | 1,635.52   |
| 500 PUPIL TRANSPORTATION SERVICES | 17,319.39 | 28,470.92  | 15,701.66        | 18,655.36 | 19,447.26 | 27,674.72  |
| 600 PLANT OPERATION               |           |            |                  |           |           |            |
| a. salaries                       | 1,935.33  | 4,210.74   | 2,707.77         | 3,183.73  | 4,110.84  | 5,982.56   |
| b. utilities                      | 4,490.97  | 5,375.92   | 7,328.14         | 4,610.28  | 8,098.56  | 9,261.67   |
| c. supplies                       | 462.21    | 555.77     | 462.43           | 462.47    | 461.70    | 1,016.82   |
| 700 PLANT MAINTENANCE             | 1,721.43  | 4,364.21   | 3,318.23         | 2,848.98  | 3,420.00  | 12,086.17  |
| 800 FIXED CHARGES                 | 451.05    | 543.85     | 453.26           | 452.17    | 448.62    | 1,296.58   |
| 1400 OUTGOING TRANSFER ACCOUNTS   | 1,515.90  | 2,159.01   | 863.29           | 1,664.48  | 1,608.54  | 3,149.99   |
| TOTALS                            | 84,060.64 | 114,139.05 | 87,464.77        | 77,343.73 | 92,257.05 | 183,930.92 |



Table 3 (continued)

| Expenditure Series                  | Beaverlodge<br>Elementary | Costs Per School |             |            |                  | Total        |
|-------------------------------------|---------------------------|------------------|-------------|------------|------------------|--------------|
|                                     |                           | Sexsmith         | High School | Hythe      | Harry<br>Balfour |              |
| 100 ADMINISTRATION                  |                           |                  |             |            |                  |              |
| a. Salaries                         | 3,827.36                  | 6,119.40         | 4,334.11    | 6,215.34   | 6,690.71         | 39,443.75    |
| b. Expenses                         | 1,957.76                  | 3,029.32         | 2,056.23    | 3,250.38   | 3,448.77         | 20,566.49    |
| 200 INSTRUCTION                     |                           |                  |             |            |                  |              |
| a. Direct salaries                  |                           |                  |             |            |                  |              |
| (1) instruction                     | 110,823.20                | 197,166.20       | 171,086.52  | 193,186.74 | 161,880.55       | 1,153,117.83 |
| b. Indirect salaries                |                           |                  |             |            |                  |              |
| (1) administration                  | 8,922.40                  | 15,242.08        | 13,933.26   | 13,214.52  | 10,442.51        | 81,977.94    |
| (2) clerical                        | 3,222.40                  | 3,654.28         | 4,317.06    | 4,570.98   | 3,718.13         | 28,623.56    |
| (3) counsellors                     |                           |                  |             | 1,512.30   | 4,189.51         | 5,919.27     |
| (4) librarians                      | 2,310.72                  | 3,454.65         | 3,987.50    | 14,554.97  | 9,426.18         | 38,623.77    |
| c. Expenses, Direct<br>and Indirect |                           |                  |             |            |                  |              |
| (1) textbooks                       | 1,431.84                  | 2,078.86         | 1,780.02    | 1,959.60   | 2,227.03         | 13,456.32    |
| (2) library                         | 2,231.36                  | 2,165.66         | 1,933.47    | 2,270.58   | 3,203.46         | 16,646.34    |
| (3) instructional<br>supplies       | 4,256.00                  | 1,523.34         | 3,788.51    | 4,903.26   | 2,198.17         | 27,011.24    |
| (4) equipment                       |                           |                  |             |            |                  |              |
| (i) science                         | 1,866.56                  | 1,948.66         | 2,881.45    | 1,473.96   | 1,880.71         | 16,029.66    |
| (ii) P.E.                           | 592.80                    | 898.38           | 847.21      | 788.10     | 1,625.78         | 7,921.46     |
| (5) correspondence<br>courses       |                           | 78.12            | 269.39      | 259.86     |                  | 7,512.63     |
| (6) other                           | 1,085.28                  | 2,347.94         | 1,575.42    | 1,976.64   | 1,500.72         | 12,347.10    |



Table 3 (continued)

| Expenditure Series                   | Beaverlodge<br>Elementary | Costs Per School |                            |            |                  | Total        |
|--------------------------------------|---------------------------|------------------|----------------------------|------------|------------------|--------------|
|                                      |                           | Sexsmith         | Beaverlodge<br>High School | Hythe      | Harry<br>Balfour |              |
| 500 PUPIL TRANSPORTATION<br>SERVICES | 26,736.80                 | 53,056.50        | 35,665.19                  | 44,444.58  | 76,757.98        | 363,930.36   |
| 600 PLANT OPERATION                  |                           |                  |                            |            |                  |              |
| a. Salaries                          | 5,772.96                  | 10,164.28        | 8,456.80                   | 9,171.78   | 8,465.60         | 64,162.39    |
| b. Utilities                         | 7,596.96                  | 13,914.04        | 10,093.60                  | 12,004.68  | 8,831.16         | 91,605.98    |
| c. Supplies                          | 1,200.80                  | 1,479.94         | 1,602.70                   | 1,661.40   | 1,755.65         | 11,121.89    |
| 700 PLANT MAINTENANCE                | 5,222.72                  | 8,150.52         | 6,018.65                   | 13,372.14  | 10,803.26        | 71,326.31    |
| 800 FIXED CHARGES                    | 3,176.80                  | 3,649.94         | 1,176.45                   | 3,229.08   | 2,621.45         | 17,499.25    |
| 1400 OUTGOING TRANSFER<br>ACCOUNTS   |                           | 4,140.36         | 971.85                     | 660.30     | 4,482.92         | 21,216.64    |
| TOTALS                               | 192,234.72                | 334,262.47       | 276,775.39                 | 334,681.19 | 326,150.25       | 2,103,290.18 |





by costs to individual schools. The schools are Valhalla, La Glace, Teepee Creek, Bezanson, Elmworth, Wembley, Beaverlodge Elementary, Sexsmith, Beaverlodge High School, Hythe, and Harry Balfour. Figures presented in Table 3 were arrived at by totalling all costs allocatable to these schools. Where some County costs were allocatable only on a per pupil basis, the per pupil cost was arrived at by dividing these costs by the total number of pupils, as outlined in Table 33 (p. 157). This cost was then allocated to the schools according to the number of registered pupils in each school (see Table 34, p. 158).

Differences among the operating costs of schools are apparent; they can be seen in Table 34. For example, administrative salaries range from a low of \$1,714.56 for Elmworth School to a high of \$6,690.71 for Harry Balfour School. One reason for this difference may be that more time is allotted to administration in larger schools.

Direct salaries also varied from school to school. Benzanson School had the lowest total direct salary cost (\$35,282.65), while Sexsmith School's direct salary costs were \$197,166.20. These varying costs are attributable in part to variations in teacher salaries, which in turn depend upon varying experience and training (see Table 4), and the number of teachers employed in each school. For example, Bezanson School had 5.3 teachers with an average experience of 12.1 years' experience but only 1.8 years of training, while Sexsmith School had 24.4 teachers whose average experience was 7.7 years and whose average years of training was 2.5. Costs for



Table 4

## Qualifications, Experience and Average Salary of Teachers by School

| Schools                | Grades Taught | No. of Teachers | Average Salary <sup>1</sup> | Average Experience (Salary Purposes) | Average Training (Years) |
|------------------------|---------------|-----------------|-----------------------------|--------------------------------------|--------------------------|
| Valhalla               | 1-9           | 6.3             | 8,285.91                    | 12.0                                 | 2.3                      |
| La Glace               | 1-9           | 7.1             | 7,338.70                    | 7.8                                  | 1.9                      |
| Teepee Creek           | 1-9           | 6.2             | 6,920.92                    | 7.3                                  | 2.0                      |
| Bezanson               | 1-9           | 5.3             | 7,203.10                    | 12.1                                 | 1.8                      |
| Elmworth               | 1-9           | 6.5             | 7,284.36                    | 8.5                                  | 1.5                      |
| Wembley                | 1-11          | 12.7            | 8,340.64                    | 7.9                                  | 2.9                      |
| Beaverlodge Elementary | 1-6           | 14.9            | 7,568.70                    | 9.0                                  | 2.0                      |
| Sexsmith               | 1-12          | 24.4            | 828.17 <sup>+</sup>         | 7.7                                  | 2.5                      |
| Beaverlodge High       | 7-12          | 19.6            | 9,012.31                    | 6.0                                  | 3.5                      |
| Hythe                  | 1-12          | 23.0            | 8,069.56                    | 7.0                                  | 3.3                      |
| Harry Balfour          | 1-9           | 20.9            | 7,811.48                    | 7.8                                  | 2.4                      |

<sup>1</sup>Includes portional salaries chargeable to indirect instructional salaries (series 200 b.).



pupil transportation services also varied considerably from one school to another. Teepee Creek School had the lowest total cost of \$15,701.66 while Sexsmith School's costs were the highest at \$53,056.50. The range of differences in transportation costs can be attributed to the number of buses used by each school. Bus use is a function of pupil enrolment and the number of miles travelled.

#### V. ESTIMATED PER PUPIL COST PER SCHOOL

Table 5 presents the average estimated per pupil costs in each of the eleven schools in the County. The total per pupil costs range from a low of \$625.03 per pupil in Beaverlodge Elementary School to a high of \$892.18 in Valhalla School. This range results in part from low enrolment. Enrolment at Beaverlodge Elementary School (Table 33, p. 157) is three times as great as it is in Valhalla School, hence, per pupil costs at Valhalla School are generally greater. The number of grades offered in a particular school also affects the costs within that school (see Table 4, p. 48). For example, Valhalla School offers grades one through nine, while Beaverlodge Elementary School offers only grades one through six. Because of its greater grade offering, Valhalla School provides a wider variety of courses than does Beaverlodge Elementary School. Another factor which influences the range of costs is teacher training and experience (see Table 4, page 48). An illustration of this factor is apparent in Beaverlodge Elementary School, where teachers have an average of 6.0 years' experience, 3.5 years' training, and an average salary of \$7,568.70. Teachers at Valhalla





Table 5

Average Estimated Per Pupil Costs in Each of the Eleven Schools in the County of Grande Prairie: 1969-1970

| Expenditure Series               | Cost Per Pupil Per School |      |          |      |              |      |          |      |          |      |         |      |
|----------------------------------|---------------------------|------|----------|------|--------------|------|----------|------|----------|------|---------|------|
|                                  | Valhalla                  |      | La Glace |      | Teepee Creek |      | Bezanson |      | Elmworth |      | Wembley |      |
|                                  | \$                        | %    | \$       | %    | \$           | %    | \$       | %    | \$       | %    | \$      | %    |
| 100 ADMINISTRATION               |                           |      |          |      |              |      |          |      |          |      |         |      |
| a. Salaries                      | 18.44                     | 2.0  | 11.72    | 1.5  | 12.49        | 1.9  | 17.24    | 2.3  | 15.04    | 1.9  | 13.64   | 2.0  |
| b. Expenses                      | 9.07                      | 1.0  | 8.11     | 1.0  | 6.84         | 1.0  | 9.16     | 1.2  | 8.31     | 1.0  | 7.72    | 1.1  |
| 200 INSTRUCTION                  |                           |      |          |      |              |      |          |      |          |      |         |      |
| a. Direct salaries               |                           |      |          |      |              |      |          |      |          |      |         |      |
| (1) instruction                  | 480.06                    | 54.0 | 385.92   | 50.6 | 336.16       | 50.4 | 342.55   | 45.6 | 385.42   | 47.9 | 347.63  | 51.5 |
| b. Indirect salaries             |                           |      |          |      |              |      |          |      |          |      |         |      |
| (1) administration               | 23.31                     | 2.6  | 17.72    | 2.3  | 20.10        | 3.0  | 24.89    | 3.3  | 20.46    | 2.5  | 30.41   | 4.5  |
| (2) clerical                     | 12.77                     | 1.4  | 7.70     | 1.0  | 15.78        | 2.4  | 11.56    | 1.5  | 6.11     | 0.8  | 10.30   | 1.5  |
| (3) counsellors                  |                           |      |          |      | 1.66         | 0.2  |          |      |          |      |         |      |
| (4) librarians                   | 11.80                     | 1.3  | 3.73     | 0.4  |              |      |          |      | 5.08     | 0.6  | 9.88    | 1.5  |
| c. Expenses, Direct and Indirect |                           |      |          |      |              |      |          |      |          |      |         |      |
| (1) textbooks                    | 4.75                      | 0.5  | 4.75     | 0.6  | 4.75         | 0.7  | 3.78     | 0.5  | 4.62     | 0.6  | 4.80    | 0.7  |
| (2) library                      | 4.98                      | 0.5  | 6.25     | 0.8  | 6.91         | 1.0  | 4.57     | 0.6  | 6.42     | 0.8  | 4.98    | 0.7  |
| (3) instructional supplies       | 3.54                      | 0.3  | 5.41     | 0.7  | 14.34        | 2.1  | 8.96     | 1.2  | 17.37    | 2.2  | 16.45   | 2.4  |
| (4) equipment                    |                           |      |          |      |              |      |          |      |          |      |         |      |
| (i) science                      | 9.07                      | 1.0  | 3.57     | 0.4  | 8.76         | 1.3  | 11.81    | 1.6  | 4.75     | 0.6  | 6.31    | 0.9  |
| (ii) P.E.                        | 22.68                     | 2.5  | 1.29     | 0.1  | 1.48         | 0.2  | 1.71     | 0.2  | 2.03     | 0.3  | .99     | 0.1  |



Table 5 (continued)

| Expenditure Series                | Cost Per Pupil Per School |       |          |      |              |      |          |       |          |       |         |      |
|-----------------------------------|---------------------------|-------|----------|------|--------------|------|----------|-------|----------|-------|---------|------|
|                                   | Valhalla                  |       | La Glace |      | Teepee Creek |      | Bezanson |       | Elmworth |       | Wembley |      |
|                                   | \$                        | %     | \$       | %    | \$           | %    | \$       | %     | \$       | %     | \$      | %    |
| (5) correspondence courses        |                           |       |          |      |              |      |          |       |          |       | .54     | .08  |
| (6) other                         | 3.55                      | 0.3   | 3.28     | 0.4  | 3.02         | 0.4  | 5.19     | 0.7   | 4.18     | 0.5   | 6.08    | .9   |
| 500 PUPIL TRANSPORTATION SERVICES | 186.28                    | 20.8  | 191.08   | 25.0 | 119.86       | 18.0 | 181.12   | 24.1  | 170.59   | 21.2  | 102.88  | 15.3 |
| 600 PLANT OPERATION               |                           |       |          |      |              |      |          |       |          |       |         |      |
| a. Salaries                       | 20.81                     | 2.3   | 28.26    | 3.7  | 20.67        | 3.1  | 30.91    | 4.1   | 36.06    | 4.5   | 22.24   | 3.3  |
| b. Utilities                      | 48.29                     | 5.4   | 36.08    | 4.7  | 55.94        | 8.4  | 44.76    | 6.0   | 71.04    | 8.8   | 34.43   | 5.1  |
| c. Supplies                       | 4.97                      | 0.5   | 3.73     | 0.4  | 3.53         | 0.5  | 4.49     | 0.6   | 4.05     | 0.5   | 3.78    | 0.6  |
| 700 PLANT MAINTENANCE             | 18.51                     | 2.0   | 29.29    | 3.8  | 25.33        | 3.8  | 27.66    | 3.7   | 30.00    | 3.7   | 44.93   | 6.7  |
| 800 FIXED CHARGES                 | 4.85                      | 0.5   | 3.65     | 0.4  | 3.46         | 0.5  | 4.39     | 0.6   | 3.93     | 0.5   | 4.82    | 0.7  |
| 1400 OUTGOING TRANSFER ACCOUNTS   | 16.30                     | 1.8   | 14.49    | 1.9  | 6.59         | 0.9  | 16.16    | 2.2   | 14.11    | 1.8   | 11.71   | 1.7  |
| TOTALS                            | 892.18                    | 100.7 | 762.25   | 99.7 | 667.62       | 98.0 | 750.86   | 100.0 | 804.87   | 100.7 | 674.59  | 99.8 |



Table 5 (continued)





Table 5 (continued)

| Expenditure Series                | Cost Per Pupil Per School |       |          |       |                     |       |        |       |               |       |  |  |
|-----------------------------------|---------------------------|-------|----------|-------|---------------------|-------|--------|-------|---------------|-------|--|--|
|                                   | Beaverlodge<br>Elementary |       | Sexsmith |       | Beaverlodge<br>High |       | Hythe  |       | Harry Balfour |       |  |  |
|                                   | \$                        | %     | \$       | %     | \$                  | %     | \$     | %     | \$            | %     |  |  |
| (5) correspondence courses        |                           |       | 0.18     | 0.02  | 0.79                | -     | 0.61   | 0.08  |               |       |  |  |
| (6) other                         | 3.57                      | 0.6   | 5.41     | 0.7   | 4.62                | 0.6   | 4.64   | 0.6   | 3.12          | 0.5   |  |  |
| 500 PUPIL TRANSPORTATION SERVICES | 87.95                     | 14.1  | 122.25   | 16.0  | 104.59              | 13.1  | 104.33 | 13.9  | 159.58        | 24.2  |  |  |
| 600 PLANT OPERATION               |                           |       |          |       |                     |       |        |       |               |       |  |  |
| a. Salaries                       | 18.99                     | 3.0   | 23.42    | 3.0   | 24.80               | 3.1   | 21.53  | 2.7   | 17.60         | 2.7   |  |  |
| b. Utilities                      | 24.99                     | 4.0   | 32.06    | 4.2   | 29.60               | 3.7   | 28.18  | 3.7   | 18.36         | 2.8   |  |  |
| c. Supplies                       | 3.95                      | 0.6   | 3.41     | 0.4   | 4.70                | 0.6   | 3.90   | 0.5   | 3.65          | 0.6   |  |  |
| 700 PLANT MAINTENANCE             | 17.18                     | 2.7   | 18.78    | 2.5   | 17.65               | 2.2   | 31.39  | 0.4   | 22.46         | 3.4   |  |  |
| 800 FIXED CHARGES                 | 10.45                     | 1.7   | 8.41     | 1.1   | 3.45                | 0.4   | 7.58   | 1.0   | 5.45          | 0.8   |  |  |
| 1400 OUTGOING TRANSFER ACCOUNTS   |                           |       | 9.54     | 1.3   | 2.85                | 0.4   | 1.55   | 0.2   | 9.32          | 1.4   |  |  |
| TOTALS                            | 625.03                    | 101.1 | 762.18   | 100.9 | 799.89              | 101.4 | 751.78 | 100.2 | 658.52        | 102.8 |  |  |



School have 12 years' average experience, 2.3 years' average training, and an average salary of \$8,285.91. These factors account for direct instructional costs of \$364.55 per pupil in Beaverlodge School (or 58.3 per cent of the total per pupil cost of the school); the same factors account for direct instructional costs of \$480.06 per pupil in Valhalla School (or 54.0 per cent of that school's total per pupil cost).

With the exception of direct salaries and pupil transportation services, the other sub-categories exhibit little percentage differences, although actual expenditures obviously vary from school to school. Transportation costs range from \$191.08 (25 per cent of the total cost in La Glace School) to \$87.95 (14.1 per cent of the total cost in Beaverlodge Elementary School). These cost differences are due to the number of buses allocated to the schools and the number of miles travelled.

Administrative costs ranged from a low of \$20.10 in Teepee Creek School to a high of \$40.86 in Beaverlodge High School. The differences in per pupil costs result from time spent on administration and the number of administrators in the schools.

## VI. PER PUPIL COSTS IN DIVISIONS BY COURSE

The costs of instructing a course consist of direct instructional costs only, with the exception of Science and Physical Education in Divisions I and II, which include the supplies and/or equipment directly associated with that course. Other costs, including indirect costs, although they affect the total cost, could



not be allocated specifically to individual courses. This did not cause significant differences in total course costs as those additional costs never account for more than 1 per cent of total course costs.

Per pupil course costs are determined by two methods. The first method used prorated teachers' salaries. Total direct costs for each course were calculated. The cost per pupil was then arrived at by dividing the total direct cost by the number of pupils enrolled in the particular course. Per pupil costs are therefore based upon (1) the amount of teacher time spent on the course, and (2) course enrolment. Tables 20-23 (see Appendix A) show the total time spent, the total enrolment, and the resultant cost per enrolled pupil for each course taught in each school.

### Division I

Table 6 summarizes the Division I per pupil course costs. The most expensive courses in Grade One were Reading at \$82.56 and Arithmetic at \$59.02. These costs resulted from the large amount of teacher time spent on these courses. The least expensive courses were Music at \$8.98 and Art and Health at \$11.48 per pupil; this was because little time was spent on these courses.

In Grade Two, Reading had the highest per pupil cost (\$67.30 per pupil) followed by Arithmetic (\$59.02 per pupil). A moderate decline in Grade Two Language from \$37.97 to \$34.19 was due in part to less time spent and in part to greater differentiation among courses. For example, not all teachers included Printing and/or





Table 6

Costs Per Student Per Course for Division I in the  
County of Grande Prairie: 1969-1970

| Course               | Grade | Cost/<br>Enrolment | Course      | Grade | Cost/<br>Enrolment |
|----------------------|-------|--------------------|-------------|-------|--------------------|
| Art                  | 1     | 15.05              | Spelling    | 1     | 17.52              |
|                      | 2     | 9.37               |             | 2     | 16.08              |
|                      | 3     | 11.45              |             | 3     | 13.43              |
| Language             | 1     | 37.97              | Phonics     | 1     | 26.19              |
|                      | 2     | 34.19              |             | 2     | 12.24              |
|                      | 3     | 25.03              |             | 3     | 9.83               |
| Reading              | 1     | 82.56              | Music       | 1     | 8.98               |
|                      | 2     | 67.30              |             | 2     | 9.81               |
|                      | 3     | 51.00              |             | 3     | 10.13              |
| Opening<br>Exercises | 1     | 15.36              | Elementary  | 1     | -                  |
|                      | 2     | 12.37              | Strings     | 2     | -                  |
|                      | 3     | 12.82              |             | 3     | 4.23               |
| Library<br>Period    | 1     | 13.20              | Health      | 1     | 11.48              |
|                      | 2     | 13.46              |             | 2     | 10.61              |
|                      | 3     | 11.64              |             | 3     | 7.30               |
| Storytime            | 1     | 17.13              | Printing    | 1     | 16.78              |
|                      | 2     | 16.66              | and/or      | 2     | 13.73              |
|                      | 3     | 10.95              | Writing     | 3     | 16.12              |
| Social<br>Studies    | 1     | 38.72              | Remedial    | 1     | -                  |
|                      | 2     | 41.91              | Reading     | 2     | -                  |
|                      | 3     | 38.75              |             | 3     | 9.21               |
| Arithmetic           | 1     | 59.02              | Opportunity |       | 714.80             |
|                      | 2     | 54.57              | Class       |       |                    |
|                      | 3     | 53.09              | Drama       | 1     | 26.76              |
|                      |       |                    |             | 2     | 28.93              |
|                      |       |                    |             | 3     | -                  |



Table 6 (continued)

| Course    | Grade | Cost/<br>Enrolment | Indirect<br>Cost <sup>1</sup> | Total |
|-----------|-------|--------------------|-------------------------------|-------|
| Physical  | 1     | 8.40               | 2.90                          | 11.30 |
| Education | 2     | 9.12               | 2.90                          | 12.02 |
|           | 3     | 8.39               | 2.90                          | 11.20 |
| Science   | 1     | 33.84              | 5.28                          | 39.12 |
|           | 2     | 39.78              | 5.28                          | 45.06 |
|           | 3     | 38.21              | 5.28                          | 43.49 |

<sup>1</sup>Indirect Costs were calculated from Table 32, p. 154.



Writing as a course in Grade One, but all teachers recorded it as a course in Grade Two. The least expensive courses on a per pupil basis were Physical Education at \$12.02 per pupil, and Health at \$10.61 per pupil. These lower costs were once again a result of (1) less time being spent on these courses, and (2) high enrolments.

In Grade Three, Arithmetic (\$53.09 per pupil) remained the most expensive course, followed by Reading (\$51.00 per pupil). Remedial Reading at \$9.21 per pupil and Elementary Strings at \$4.23 per pupil were the least expensive due to their restricted enrolments and short periods of instruction.

It was possible to determine instructional supplies and equipment costs for Physical Education and Science in Divisions I and II. These are presented in Table 31, p. 153. These costs have been prorated to enrolment in these courses and added to the direct instructional cost in Table 6, p. 56, Table 3, p. 43.

## Division II

The per pupil course costs for Division II are shown in Table 7. Reading at \$58.50 per pupil for Grade Four, \$49.71 per pupil for Grade Five, and \$60.79 per pupil for Grade Six was the most expensive course per pupil. Next most expensive was Mathematics, which cost \$53.51 per pupil for Grade Four, \$52.13 per pupil for Grade Five, and \$67.11 per pupil for Grade Six. Opening Exercises was the least expensive course in Grade Four at \$6.81 per pupil, in Grade Five at \$2.79 per pupil and in Grade Six at \$5.58 per pupil. Grades Five and Six Creative Writing cost \$7.26 per pupil. Grades





Table 7

Costs Per Student Per Course for Division II in the  
County of Grande Prairie: 1969-1970

| Course      | Grade | Cost/<br>Enrolment | Course     | Grade | Cost/<br>Enrolment |
|-------------|-------|--------------------|------------|-------|--------------------|
| Art         | 4     | 12.31              | Library    | 4     | 9.58               |
|             | 5     | 8.30               | Period     | 5     | 9.31               |
|             | 6     | 13.91              |            | 6     | 9.46               |
| Language    | 4     | 35.90              | Storytime  | 4     | 14.67              |
|             | 5     | 29.61              |            | 5     | -                  |
|             | 6     | 27.59              |            | 6     | -                  |
| Spelling    | 4     | 11.91              | French     | 4     | -                  |
|             | 5     | 11.40              |            | 5     | 5.70               |
|             | 6     | 13.23              |            | 6     | 6.77               |
| Opening     | 4     | 6.81               | Health     | 4     | 9.73               |
| Exercises   | 5     | 2.79               |            | 5     | 6.40               |
|             | 6     | 5.58               |            | 6     | 9.36               |
| Drama       | 4     | 9.54               | Reading    | 4     | 58.50              |
|             | 5     | -                  |            | 5     | 49.71              |
|             | 6     | -                  |            | 6     | 60.79              |
| Remedial    | 4     | 6.88               | Writing    | 4     | 10.71              |
| Reading     | 5     | 50.36              |            | 5     | 9.93               |
|             | 6     | 50.36              |            | 6     | 10.78              |
| Social      | 4     | 44.35              | Supervised | 4     | -                  |
| Studies     | 5     | 41.10              | Study      | 5     | -                  |
|             | 6     | 35.53              |            | 6     | 10.05              |
| Mathematics | 4     | 53.51              | Creative   | 4     | -                  |
|             | 5     | 53.13              | Writing    | 5     | 7.26               |
|             | 6     | 67.11              |            | 6     | 7.26               |
| Music       | 4     | 11.45              | Phonics    | 4     | 10.50              |
|             | 5     | 9.23               |            | 5     | 4.25               |
|             | 6     | 10.62              |            | 6     | 7.56               |



Table 7 (continued)

| Course                | Grade | Cost/<br>Enrolment | Indirect<br>Cost <sup>2</sup> | Total |
|-----------------------|-------|--------------------|-------------------------------|-------|
| Physical<br>Education | 4     | 10.71              | 2.93                          | 13.64 |
|                       | 5     | 8.04               | 2.93                          | 10.97 |
|                       | 6     | 15.88              | 2.93                          | 18.81 |
| Science               | 4     | 41.62              | 5.50                          | 47.12 |
|                       | 5     | 25.39              | 5.50                          | 30.89 |
|                       | 6     | 53.92              | 5.50                          | 59.42 |

<sup>2</sup>Indirect Costs were calculated from Table 30, p. 151.



Five and Six French cost \$5.70 per pupil and \$6.77 per pupil respectively. The high range of cost differences can be accounted for on the basis of time spent on instruction, with the exception of Creative Writing and French, which in addition to a short instructional time also had a restricted enrolment.

### Division III

Table 8 summarizes the course costs of Division III subjects. At this level, class size and length of time spent on each course became more standardized than was the case in earlier grades. However, some courses received more time than others, and therefore differences in cost still resulted.

Language Arts was the most expensive course offered in Grade Seven (\$81.21 per pupil). The second most expensive Grade Seven course was Industrial Arts (\$65.01 per pupil), followed by Drama, which cost \$45.08 per pupil. The least expensive courses in Grade Seven were Health at \$9.71 per pupil and Guidance at \$9.30 per pupil. The most expensive core subjects were Mathematics at \$44.75 per pupil and Language at \$42.41 per pupil.

Home Economics was the most expensive Grade Eight course, costing \$66.63 per pupil, followed by Industrial Arts, which cost \$51.11 per pupil. The least expensive courses in Grade Eight were Spelling at \$3.66 per pupil and Opening Exercises at \$4.09 per pupil. The most expensive Grade Eight core course was Mathematics, which cost \$44.84 per pupil.

In Grade Nine Mathematics was the most expensive course,





Table 8

Costs Per Student Per Course For Division III in  
the County of Grande Prairie: 1969-1970

| Course             | Grade | Cost/<br>Enrolment | Course            | Grade | Cost/<br>Enrolment |
|--------------------|-------|--------------------|-------------------|-------|--------------------|
| Physical Education | 7     | 14.76              | Social Studies    | 7     | 17.13              |
|                    | 8     | 15.12              |                   | 8     | 13.03              |
|                    | 9     | 16.47              | Option            | 9     | 16.19              |
| Language           | 7     | 42.41              | Science           | 7     | 31.75              |
|                    | 8     | 28.93              |                   | 8     | 27.82              |
|                    | 9     | 61.51              |                   | 9     | 46.06              |
| Language Arts      | 7     | 81.21              | Science Option    | 7     | 20.46              |
|                    | 8     | 36.80              |                   | 8     | 16.35              |
|                    | 9     | -                  |                   | 9     | 18.07              |
| Reading            | 7     | 20.54              | Health            | 7     | 9.71               |
|                    | 8     | 25.49              |                   | 8     | 9.43               |
|                    | 9     | 23.87              |                   | 9     | 11.13              |
| Literature         | 7     | 35.82              | Art               | 7     | 11.93              |
|                    | 8     | 31.47              |                   | 8     | 10.53              |
|                    | 9     | 37.27              |                   | 9     | 9.84               |
| Creative Writing   | 7     | 9.23               | Art Option        | 7     | 18.89              |
|                    | 8     | 9.23               |                   | 8     | 14.31              |
|                    | 9     | -                  |                   | 9     | 15.74              |
| Spelling           | 7     | 23.71              | Arts and Crafts   | 7     | 20.45              |
|                    | 8     | 23.71              |                   |       |                    |
|                    | 9     | -                  | Home Economics    | 7     | 36.68              |
| Library            | 7     | 10.47              |                   | 8     | 66.63              |
|                    | 8     | 14.79              |                   | 9     | 56.95              |
|                    | 9     | 10.61              | Industrial Arts   | 7     | 65.01              |
| Mathematics        | 7     | 44.75              |                   | 8     | 51.11              |
|                    | 8     | 44.84              |                   | 9     | 47.25              |
|                    | 9     | 59.56              | Opening Exercises | 7     | -                  |
| Social Studies     | 7     | 31.17              |                   | 8     | 4.09               |
|                    | 8     | 28.12              |                   | 9     | -                  |
|                    | 9     | 49.43              |                   |       |                    |



Table 8 (continued)

| Course                | Grade          | Cost/<br>Enrolment | Course               | Grade | Cost/<br>Enrolment |
|-----------------------|----------------|--------------------|----------------------|-------|--------------------|
| Supervised Study      | 7              | 20.28              | French               | 7     | -                  |
|                       | 8              | 19.53              |                      | 8     | -                  |
|                       | 9              | 9.25               |                      | 9     | 16.82              |
| Mathematics           | 7              | -                  | World                | 7     | 11.44              |
| Option                | 8              | 25.72              | Affairs              | 8     | 11.44              |
|                       | 9              | 13.34              |                      | 9     | 11.44              |
| Developmental Reading | 7              | -                  | Guidance             | 7     | 7.76               |
|                       | 8              | 10.26              |                      | 8     | 6.88               |
|                       | 9              | -                  |                      | 9     | 27.77              |
| Creative Writing      | 7              | -                  | Music                | 7     | 22.74              |
|                       | 8              | -                  | Appreciation         | 8     | 22.74              |
|                       | 9              | 57.91              | Option               |       |                    |
| Drama                 | 7              | 45.08              |                      |       |                    |
|                       | 8              | 45.08              |                      |       |                    |
|                       | 9              | 49.59              |                      |       |                    |
| Option <sup>1</sup>   | 7              | 5.56               | Art Option           | X     | 72.04              |
| Language Arts Option  | 8              | 71.73              | French Option        | X     | 14.27              |
| Typing Option         | X <sup>2</sup> | 21.95              | Activities           | X     | 10.41              |
| Typing 10/20          | X              | 33.47              | Drama                | X     | 29.88              |
| Opportunity Typing    | X              | 35.85              | Language Option      | X     | 15.88              |
| Home Economics Option | X              | 26.03              | Math/Science Option  | X     | 38.18              |
| Remedial Reading      | X              | 16.84              | Remedial Math Option | X     | 38.18              |

<sup>1</sup>No area specified. <sup>2</sup>X denotes that no grade levels were specified.



costing \$59.56 per pupil, followed by Home Economics at \$56.95 per pupil. The least expensive Grade Nine courses were Health, which cost \$11.13 per pupil, and Art, which cost \$9.98 per pupil.

Time spent on a course was the most significant determinant of course costs. In addition to time, enrolment affected the range of costs to a considerable extent.

Courses such as Industrial Arts and Home Economics are designated as options and consequently the high costs of these courses may be attributed to the time and enrolment factors. Courses such as Language Arts also incurred high costs due to these factors and were also affected by the fact they were offered on a limited basis. An example of fluctuating per pupil course costs as a result of enrolment is that Grade Seven Art costs \$11.93 per pupil, while Grade Nine Art, which had a higher enrolment, cost only \$9.84 per pupil.

#### Division IV

Table 9 presents per student costs for Division IV. At this level there was a wide variety of courses offered. It is therefore difficult to speak of core academic courses. For example, a pupil can select one or more of two English courses offered in Grade Ten, two or more of four in Grade Eleven, and an additional two in Grade Twelve.

Although these courses were five-credit courses, per pupil costs ranged from \$42.31 per pupil for English 10 to \$53.62 per pupil for English 13. Once again costs differed because of





Table 9

Costs Per Student Per Course For Division IV in  
the County of Grande Prairie: 1969-1970

| Course      |       | Cost/<br>Enrolment | Course      |        | Cost/<br>Enrolment |
|-------------|-------|--------------------|-------------|--------|--------------------|
| English     | 10    | 42.31              | Language    | 21     | 48.85              |
|             | 20    | 45.96              |             | 22     | 50.35              |
|             | 30    | 59.39              |             |        |                    |
|             |       |                    | Literature  | 21     | 43.77              |
| Reading     | 10    | 32.68              |             |        |                    |
|             | 20    | -                  | Mathematics | 12     | 111.95             |
|             | 30    | -                  |             | 15     | 43.44              |
|             |       |                    |             | 22     | 78.30              |
| Social      | 10    | 44.23              |             | 31     | 154.98             |
| Studies     | 20    | 45.33              |             | 32     | 78.30              |
|             | 30    | 45.59              |             |        |                    |
|             |       |                    | Dramatics   | 10     | 37.52              |
| Mathematics | 10    | 56.50              |             |        |                    |
|             | 20    | 52.06              | Occupations | 10     | 28.74              |
|             | 30    | 82.68              |             |        |                    |
|             |       |                    | Bookkeeping | 10     | 17.59              |
| Biology     | 10    | 63.86              |             | 20     | 97.75              |
|             | 20    | 50.80              |             | 30     | -                  |
|             | 30    | 35.04              |             |        |                    |
|             |       |                    | Shorthand   | 10     | 142.02             |
| Chemistry   | 10    | 26.88              |             | 20     | 195.80             |
|             | 20    | 136.93             |             | 30     | 213.04             |
|             | 30    | 88.60              |             |        |                    |
|             | 30x   | 44.70              | Typing      | 9      | 492.48             |
|             |       |                    |             | 10     | 33.47              |
| Physics     | 10    | 46.97              |             | 20     | 44.80              |
|             | 20    | 115.02             |             | 30     | 101.08             |
|             | 30    | 78.60              |             |        |                    |
|             |       |                    | Clerical    |        |                    |
| Science     | 11    | 57.88              | Practice    | 20     | 78.19              |
|             |       |                    |             |        |                    |
| French      | 10    | 60.95              | Business    |        |                    |
|             | 20    | 101.27             | Machines    | 30     | 93.52              |
|             | 30    | 93.52              |             |        |                    |
|             |       |                    | Physical    | 10     | 30.36              |
| English     | 13    | 53.62              | Education   | 20     | 41.66              |
|             | 23    | 51.56              |             | 10/10A | 18.46              |
|             | 33    | 50.00              |             | 20/30  |                    |
|             | 23/33 | 36.27              |             | 10/20  | 28.02              |



Table 9 (continued)

| Course                 |              |                    | Course                 |                |                    |
|------------------------|--------------|--------------------|------------------------|----------------|--------------------|
|                        |              | Cost/<br>Enrolment |                        |                | Cost/<br>Enrolment |
| Fabrics and<br>Dresses | 10           | 94.50              | Economics              | 30             | 72.98              |
| Foods and<br>Nutrition | 10/20<br>20  | 132.60<br>99.79    | Sociology              | 20             | 57.47              |
| Art                    | 10/20        | 123.12             | Law                    | 20             | 34.52              |
| Industrial<br>Arts     | 10<br>20     | 396.82<br>161.15   | Office<br>Practice     | 30             | 40.16              |
| General                | 30           | 396.82             | Option <sup>1</sup>    | 12             | 15.18              |
| Industrial<br>Arts     | 10,<br>20,30 | 100.57             | High School<br>Library | X <sup>2</sup> | 392.89             |
| Geography              | 20           | 55.98              | Study Hall             |                | 26.32              |
| Psychology             | 20           | 55.39              |                        |                |                    |

<sup>1</sup>No area specified.

<sup>2</sup>The "X" symbol signifies an unspecified grade level for the course.



enrollments. Comparisons of course costs were made difficult as course credit values, which represent instruction time, varied. Costs of Science courses ranged from \$34.05 per pupil for Biology 30, which is a three-credit course (120 minutes of instruction per week), to \$78.60 per pupil for Physics 30, which is a five-credit course (200 minutes of instruction per week). Comparisons became even more difficult among courses from different program routes. For example, Chemistry 10 cost \$26.88 per pupil but was worth three credits and was taught to more students than was Shorthand 10, which cost \$142.02 per pupil and was worth five credits.

In Division IV, higher direct instructional costs are evident. This is due to higher teacher salaries which reflect higher teacher qualifications at this level.

The previous discussion of per pupil costs draws attention to yet another problem that can result from directing attention purely to per pupil costs. Total course costs have not been discussed up to this point. Although low registration appears to result in high per pupil costs, such is not often true of total course costs. One way of regarding these costs is on a per credit or per hour basis. Another way of looking at course costs is to group related courses into clusters. By doing so, it is possible to arrive at the cost of offering a general field of study as opposed to individual courses. The following discussion deals with both total and per pupil course cluster costs.





## VII. PER PUPIL COSTS BY COURSE CLUSTERS

The term "course cluster" refers to a process which entails the grouping of courses with a common feature under one heading, and arriving at a per pupil cost for that group of subjects. For example, Mathematics, Mathematics Option, and Remedial Mathematics are all concerned with the teaching of Mathematics. In order to determine more accurate per student costs, these are grouped together under the heading of Mathematics Cluster. The clusters used in this study were Social Studies, Language Arts, Science, Modern Languages, Physical Education, Business Education, Mathematics, Home Economics, Industrial Arts, Fine Arts, and Supervised Non-Instruction Time.

The concept of clustering courses was of benefit in all four Divisions.

In Divisions I and II, some problems were encountered in the Faculty Workload Survey in the cluster entitled Language Arts. Some teachers reported that they devoted less time to Language than did other teachers, but teachers also specified time spent on teaching other Language Arts courses such as Spelling, Reading, Printing and/or Writing, and Literature.

Pupil costs per course were therefore inaccurate for direct comparisons, as enrolments per courses and courses taken by students differed depending on the teacher involved. In order to correct possible discrepancies all the per pupil costs were aggregated into clusters. This made total costs more meaningful, by giving a per



pupil cost on the basis of subject areas. To illustrate, Division III offered a Music program ranging from \$22.74 per pupil to \$36.60 per pupil. When Art and Drama courses were added, the total cost of the Fine Arts cluster was brought to \$9,481.63. The cost of the Mathematics cluster was \$40,638.63 and the cost of the Social Studies cluster was \$41,146.76. This type of information can be of assistance to educators faced with program decisions.

Clusters utilized in this analysis are found in Tables 26-28 (pp. 145-149). Aggregate costs were apportioned on both per enrolment and per pupil bases. Cost per enrolment gives the average cost for total registration in all courses in the cluster, while cost per pupil represents the average cost of making the cluster available to students in the Division. This procedure was followed to indicate the relative costs of the clusters. It also served as a check for minor discrepancies in the Faculty Workload Survey.

In clusters that are courses in themselves, for example Physical Education in Divisions I and II, the cost per enrolment should be the same as the cost per pupil. However, minor discrepancies occurred which can be attributed to errors in either the Faculty Workload Survey in District records.

### Division I

Table 10 illustrates the cluster costs for Division I. The most expensive cluster was Language Arts, which had a total cost of \$127,949.06 and a cost per pupil for the year of \$166.60. The Opportunity Class had a high cost per enrolment figure, but a low total cost. Excluding the Teacher Supervised Non-Instruction





Table 10

Course Cluster Instructional Costs for Division I  
in the County of Grande Prairie: 1969-1970

| Course Cluster                        | Direct<br>Total Cost | Cost/<br>Enrolment <sup>1</sup> | Cost/<br>Pupil <sup>2</sup> | Indirect<br>Cost <sup>3</sup> | Total     | Cost/<br>Enrolment | Cost/<br>Pupil |
|---------------------------------------|----------------------|---------------------------------|-----------------------------|-------------------------------|-----------|--------------------|----------------|
| Social Studies                        | 41,146.76            | 25.00                           | 53.57                       |                               |           |                    |                |
| Language Arts                         | 127,949.06           | 28.21                           | 166.60                      |                               |           |                    |                |
| Mathematics                           | 40,038.63            | 55.61                           | 52.13                       |                               |           |                    |                |
| Science                               | 23,252.01            | 37.20                           | 30.26                       | 4,323.84                      | 27,575.85 | 44.12              | 35.90          |
| Physical Education                    | 4,006.70             | 8.64                            | 5.22                        | 2,135.04                      | 6,141.74  | 13.23              | 8.06           |
| Fine Arts                             | 11,615.30            | 10.35                           | 15.12                       |                               |           |                    |                |
| Teacher Supervised<br>Non-Instruction | 5,252.79             | 13.33                           | 6.83                        |                               |           |                    |                |
| Opportunity Class                     | 9,299.64             | 238.45                          | X <sup>4</sup>              |                               |           |                    |                |

<sup>1</sup>Cost per enrolment figures represent an average cost for total registrations in all courses in the course clusters. <sup>2</sup>Cost per pupil figures represent the average cost per Division I pupil in the County. <sup>3</sup>Indirect costs taken from Table 2, p. 40. <sup>4</sup>The courses designated with an "X" are charged only to the pupils registered as the courses are not common to all pupils in the Divisions.





cluster, the least expensive cluster in both total cost (\$4,006.70), and cost per pupil (\$15.12) was Physical Education.

The wide range of costs is due mainly to the number of courses in each cluster; those clusters with more courses had a higher cost per pupil, and more time spent on the courses. For example, courses making up the Language Arts cluster were taught for a larger period of time than were Physical Education courses.

### Division II

Table 11 presents course cluster instructional costs for Division II. Some changes in costs are evident at this level. Language Arts remained the most expensive course both in total, \$99,075.44, and in per pupil costs, \$132.98, but was not as expensive as it was in Division I. Mathematics, with a total cost of \$43,345.63 and a cost per pupil of \$58.18, was more expensive than was Social Studies which had a total cost of \$42,452.49 and a per pupil cost of \$56.98. Physical Education remained the least expensive cluster offered, with a total cost of \$11,523.64 and a cost per pupil of \$15.46. The downward trend in costs in Division II was due to shorter instructional time being spent on these clusters; in Division II, that is, less teaching time was devoted to these clusters in relation to teachers' salaries.

### Division III

Table 12 summarizes the course cluster instructional costs for Division III. Language Arts remained the most expensive cluster, with a total cost of \$72,673.00 and a cost per pupil of \$88.52.



Table 11

Course Cluster Instructional Costs for Division II  
in the County of Grande Prairie: 1969-1970

| Course Cluster                        | Direct<br>Total Cost | Cost/<br>Enrolment <sup>1</sup> | Cost/<br>Pupil <sup>2</sup> | Indirect<br>Cost <sup>3</sup> | Total     | Cost/<br>Enrolment | Cost/<br>Pupil |
|---------------------------------------|----------------------|---------------------------------|-----------------------------|-------------------------------|-----------|--------------------|----------------|
| Social Studies                        | 42,452.49            | 24.93                           | 56.98                       |                               |           |                    |                |
| Language Arts                         | 99,075.44            | 24.06                           | 132.98                      |                               |           |                    |                |
| Mathematics                           | 43,345.63            | 57.11                           | 58.18                       |                               |           |                    |                |
| Science                               | 33,103.94            | 39.18                           | 44.43                       | 4,194.35                      | 37,298.29 | 44.18              | 50.06          |
| Fine Arts                             | 16,708.58            | 11.28                           | 22.43                       |                               |           |                    |                |
| Physical Education                    | 9,452.54             | 11.60                           | 12.69                       | 2,071.10                      | 11,523.64 | 14.14              | 15.46          |
| Teacher Supervised<br>Non-Instruction | 2,767.26             | 6.15                            | 3.71                        |                               |           |                    |                |
| Supervised Non-<br>Instruction        | 1,499.45             | 15.62                           | X <sup>4</sup>              |                               |           |                    |                |
| Modern Language                       | 650.00               | 6.19                            | X                           |                               |           |                    |                |

<sup>1</sup>Cost/enrolment figures represent an average cost for total registrations in all courses in the course clusters. <sup>2</sup>Cost/pupil figures represent the average cost per Division II pupil in the District.

<sup>3</sup>Indirect costs taken from Table 2, p. 40. <sup>4</sup>These courses are charged only to the pupils registered, as these courses are not common to all pupils in the Division.



Table 12

Course Cluster Instructional Costs for Division III  
in the County of Grande Prairie: 1969-1970

| Course Cluster                | Direct<br>Total Cost | Cost/<br>Enrolment <sup>1</sup> | Cost/<br>Pupil <sup>2</sup> |
|-------------------------------|----------------------|---------------------------------|-----------------------------|
| Fine Arts                     | 9,481.63             | 21.40                           | 11.55                       |
| Social Studies                | 41,285.95            | 32.23                           | 50.29                       |
| Language Arts                 | 72,673.00            | 35.73                           | 88.52                       |
| Mathematics                   | 43,735.54            | 47.28                           | 53.27                       |
| Physical Education            | 28,959.45            | 12.76                           | 35.27                       |
| Science                       | 36,959.41            | 31.40                           | 45.47                       |
| Industrial Arts               | 19,535.80            | 54.27                           | 23.80                       |
| Home Economics                | 21,547.04            | 50.58                           | 26.24                       |
| Modern Language               | 1,262.25             | 15.98                           | 1.54                        |
| Supervised<br>Non-Instruction | 29,281.95            | 13.70                           | 35.67                       |
| Business Education            | 1,826.51             | 53.72                           | 2.22                        |

<sup>1</sup>Cost per enrolment figures represent an average cost for total registration in all courses in the course cluster.

<sup>2</sup>Cost per pupil figures represent the average cost per Division III pupil in the District.





Industrial Arts had the highest cost per enrolment at \$54.27. Fine Arts was the least expensive cluster offered with a total cost of \$9,481.63 and a cost per pupil of \$11.55. Differences in cluster costs were due to the varying instructional time spent in the cluster and pupil enrolment in the cluster. Another contributing factor, inferred from Table 4, p. 48, is that Division III teachers are more highly qualified than are Division I or Division II teachers.

#### Division IV

Table 13 presents the course cluster instructional costs for Division IV. Science was the most expensive Division IV cluster, with a direct instructional cost of \$34,949.18. Per enrolment costs were higher for Business Education, Home Economics, and Industrial Arts clusters than they were for all regular academic clusters with the exception of the Modern Language cluster. The cost per enrolment in Business Education was \$63.65; in Home Economics, \$111.31; and in Industrial Arts \$144.74. These costs were a result of low registration and longer periods of instruction.

Although implementary costs are not included in this cluster, for reasons formerly mentioned, it may be assumed that the costs of equipment and supplies would be significant and would have an effect on the clusters' total costs and costs per enrolment. Modern Language had the highest per pupil cost (\$78.11) of the academic courses. Mathematics had the next highest per pupil cost of \$55.63, followed by Science at \$53.28. The Fine Arts cluster cost \$6,841.15 less in Division IV than it did in Division III. Also, the total



Table 13

Course Cluster Instructional Costs for Division IV  
in the County of Grande Prairie: 1969-1970

| Course Cluster                | Direct<br>Total Cost | Cost/<br>Enrolment |
|-------------------------------|----------------------|--------------------|
| Language Arts                 | 27,322.46            | 47.03              |
| Social Studies                | 18,751.34            | 51.66              |
| Mathematics                   | 23,533.20            | 55.63              |
| Science                       | 34,949.18            | 53.28              |
| Modern Language               | 15,622.01            | 78.11              |
| Fine Arts                     | 2,640.48             | 61.40              |
| Physical Education            | 6,443.33             | 29.83              |
| Business Education            | 30,873.14            | 63.65              |
| Home Economics                | 4,118.50             | 111.31             |
| Industrial Arts               | 8,250.24             | 144.74             |
| Supervised<br>Non-Instruction | 26,999.60            | 24.04              |



costs of Language Arts, Social Studies, Mathematics, and Science were less in Division IV than they were in Division III. This difference was attributed mainly to the fact that a number of pupils in the County attend the Composite High School in the District of Grande Prairie; no costs accrue to the County, with the District receiving the per pupil grant from the Provincial Government.

A summary of course cluster costs for Divisions I, II, III, and IV appears in Table 14.

#### VIII. PER PUPIL COSTS BY GRADE OR PROGRAM ROUTES

It is of limited value to speak of individual courses or course cluster costs in either total or per enrolment terms unless these courses are placed in the context of program routes. This method of aggregation is necessary in order to determine the actual cost of educating a pupil. The following section deals with per pupil costs by program routes.

The total cost of instructing a student at any level is comprised of the direct instructional costs of the appropriate grade or program and all indirect and implementary per pupil expenditures chargeable to that grade or program. The latter costs are the pro-rated costs of all expenditure classifications other than those reported in Table 10 (p. 70), Table 11 (p. 72), Table 12 (p. 73), and Table 13 (p. 75). The per pupil indirect and implementary expenditures are reported in Table 32, p. 154.





Table 14

Course Cluster Costs for Divisions I, II, III, and IV for the  
County of Grande Prairie: 1969-1970

| Cluster                                  | Div.  | Total<br>Allocatable<br>Cost | Cost/<br>Enrolment <sup>1</sup> | Cost/<br>Pupil <sup>2</sup> |
|------------------------------------------|-------|------------------------------|---------------------------------|-----------------------------|
| Language Arts                            | I     | 127,949.06                   | 28.21                           | 166.60                      |
|                                          | II    | 99,075.44                    | 24.06                           | 132.98                      |
|                                          | III   | 72,673.00                    | 35.73                           | 88.53                       |
|                                          | IV    | 27,322.46                    | 47.03                           | - <sup>3</sup>              |
|                                          | Total | 327,119.96                   |                                 |                             |
| Mathematics                              | I     | 40,038.63                    | 55.61                           | 52.13                       |
|                                          | II    | 43,345.63                    | 57.11                           | 58.18                       |
|                                          | III   | 43,735.54                    | 47.28                           | 53.27                       |
|                                          | IV    | 23,533.20                    | 55.63                           | -                           |
|                                          | Total | 150,653.00                   |                                 |                             |
| Fine Arts                                | I     | 11,615.30                    | 10.35                           | 15.12                       |
|                                          | II    | 16,708.58                    | 11.28                           | 22.43                       |
|                                          | III   | 9,481.63                     | 21.40                           | 11.55                       |
|                                          | IV    | 2,640.48                     | 61.40                           | -                           |
|                                          | Total | 40,445.99                    |                                 |                             |
| Teacher<br>Supervised<br>Non-Instruction | I     | 5,252.79                     | 13.33                           | 6.83                        |
|                                          | II    | 2,767.26                     | 6.15                            | 3.71                        |
|                                          | III   | 29,281.95                    |                                 |                             |
|                                          | IV    | 26,999.60                    | 24.04                           | -                           |
|                                          | Total | 37,948.60                    |                                 |                             |
| Opportunity<br>Class <sup>4</sup>        |       | 9,299.64                     | 238.45                          |                             |

<sup>1</sup>Cost per enrolment figures represent an average cost for total registration in all courses in the course clusters.

<sup>2</sup>Cost per pupil figures represent the average cost of the cluster for each student in that Division.

<sup>3</sup>Due to the wide variety of programs offered in Division IV, a cost per pupil figure would be meaningless.

<sup>4</sup>As these courses are not common to all students in the Division, no cost per pupil figures have been calculated.



Table 14 (continued)

| Cluster                       | Div. | Total<br>Allocatable<br>Cost | Cost/<br>Enrolment | Cost/<br>Pupil |
|-------------------------------|------|------------------------------|--------------------|----------------|
| Modern<br>Languages           | I    |                              |                    |                |
|                               | II   | 650.00                       | 6.19               |                |
|                               | III  | 1,262.25                     | 15.98              |                |
|                               | IV   | 15,622.01                    | 78.11              |                |
| Total                         |      | 17,534.26                    |                    |                |
| Social Studies                | I    | 41,146.76                    | 25.00              | 53.57          |
|                               | II   | 42,452.49                    | 24.93              | 56.98          |
|                               | III  | 41,285.95                    | 32.23              | 50.29          |
|                               | IV   | 18,751.34                    | 51.66              | -              |
| Total                         |      | 143,636.54                   |                    |                |
| Science                       | I    | 27,575.85                    | 44.12              | 35.90          |
|                               | II   | 37,298.29                    | 44.18              | 50.06          |
|                               | III  | 36,959.41                    | 31.40              | 45.47          |
|                               | IV   | 34,949.18                    | 53.28              | -              |
| Total                         |      | 136,782.73                   |                    |                |
| Physical<br>Education         | I    | 6,141.74                     | 13.23              | 8.00           |
|                               | II   | 11,523.64                    | 14.14              | 15.46          |
|                               | III  | 28,959.45                    | 12.76              | 35.27          |
|                               | IV   | 6,443.33                     | 29.83              | -              |
| Total                         |      | 53,068.16                    |                    |                |
| Supervised<br>Non-Instruction | II   | 1,499.45                     | 15.62              |                |
| Home Economics                | III  | 21,547.04                    | 50.58              | 26.24          |
|                               | IV   | 4,118.50                     | 111.31             | -              |
| Total                         |      | 25,665.54                    |                    |                |
| Industrial Arts               | III  | 19,535.80                    | 54.27              | 23.80          |
|                               | IV   | 8,250.24                     | 144.74             | -              |
| Total                         |      | 27,786.04                    |                    |                |
| Business<br>Education         | III  | 1,826.51                     | 53.72              | 2.22           |
|                               | IV   | 30,873.14                    | 63.65              | -              |
| Total                         |      | 32,699.65                    |                    |                |



### Division I

Table 15 illustrates the costs of educating a pupil in Division I. Grade One was the most expensive Division I grade at \$510.19 a year; the mean cost of educating a student in Division I was \$505.79 per year. The cost differences evident among the grades in this Division were attributable mainly to direct instruction costs.

### Division II

Table 16 summarizes the costs of educating a pupil in Division II; the mean cost of educating a pupil in Division II was little different from that of Division I. The average cost for Division II was \$495.39, with a range from \$478.48 for Grade Five to \$506.85 for Grade Six. The cost differences were due primarily to the costs of direct instruction.

As not all courses were compulsory in Division II, there was a range of costs for educating a pupil in each grade dependent upon the options selected. Costs of programs ranged from the costs of the core or compulsory courses plus the least expensive optional courses to the core program courses plus the most expensive optional courses. Program costs, as determined by the program routes offered in the County, are found in Table 29, p. 150.

### Division III

The core program in Division III was based upon 900 minutes per week of instruction time; costs ranged from \$144.83 for Grade Eight to \$233.03 for Grade Nine (see Table 17). The costs varied





Table 15

Course Cluster and Per Grade Costs for Division I in  
the County of Grande Prairie: 1969-1970

| Cluster                                            | Grade One     |                             | Grade Two     |                             | Grade Three   |                             | Mean<br>Div.<br>I |
|----------------------------------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|-------------------|
|                                                    | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> |                   |
| Social Studies                                     | 15,826.32     | 24.35                       | 11,132.41     | 27.29                       | 15,226.20     | 24.09                       | 25.24             |
| Language                                           | 49,899.11     | 35.44                       | 19,249.68     | 28.14                       | 47,649.89     | 24.04                       | 29.20             |
| Mathematics                                        | 17,720.98     | 62.18                       | 22,203.67     | 62.20                       | 21,890.90     | 58.85                       | 61.67             |
| Science <sup>2</sup>                               | 12,004.51     | 37.87                       | 13,193.64     | 40.60                       | 11,991.38     | 39.19                       | 39.22             |
| Physical Education <sup>2</sup>                    | 3,744.65      | 11.42                       | 3,782.33      | 11.43                       | 3,267.71      | 12.71                       | 11.85             |
| Fine Arts                                          | 8,499.87      | 12.04                       | 7,443.54      | 10.48                       | 7,533.56      | 10.55                       | 11.02             |
| Teacher Supervised<br>Non-Instruction <sup>3</sup> | 2,758.72      | 15.76                       | 3,468.29      | 13.28                       | 1,835.08      | 11.99                       | 13.62             |

<sup>1</sup>Cost per pupil represents average cost for grade enrolment in County.

<sup>2</sup>Physical Education and Science figures have been corrected to include indirect costs (taken from Table 30, p. 151).

<sup>3</sup>Teacher Supervised Non-Instruction Time (see Table 25, p. 140).



Table 15 (continued)

|                                                      | Grade One | Grade Two | Grade Three | Mean   |
|------------------------------------------------------|-----------|-----------|-------------|--------|
| Per Pupil Direct<br>Cost Per Grade                   | 199.06    | 193.42    | 191.82      | 194.76 |
| Indirect-Implementary<br>Cost Per Grade <sup>4</sup> | 311.13    | 310.46    | 311.48      | 311.02 |
| Total Cost Per Grade                                 | 510.19    | 503.88    | 503.30      | 505.79 |

<sup>4</sup>Indirect-Direct Implementary Costs Per Grade (taken from Table 31, p. 153).



Table 16

Course Cluster and Per Grade Costs for Division II in  
the County of Grande Prairie: 1969-1970

| Cluster                         | Grade Four    |                             | Grade Five    |                             | Grade Six     |                             | Mean<br>Div.<br>II |
|---------------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|--------------------|
|                                 | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> | Total<br>Cost | Cost/<br>Pupil <sup>1</sup> |                    |
| Social Studies                  | 15,220.86     | 27.28                       | 17,987.33     | 27.00                       | 16,133.65     | 23.52                       | 25.93              |
| Language                        | 36,286.04     | 24.89                       | 38,224.18     | 25.30                       | 37,519.29     | 24.60                       | 24.93              |
| Mathematics                     | 12,404.06     | 55.13                       | 14,857.25     | 53.06                       | 16,523.31     | 65.05                       | 57.74              |
| Science <sup>2</sup>            | 10,054.07     | 45.70                       | 14,297.06     | 33.96                       | 15,804.59     | 56.65                       | 45.43              |
| Physical Education <sup>2</sup> | 3,247.78      | 14.50                       | 3,917.09      | 10.45                       | 6,024.94      | 16.83                       | 13.92              |
| Fine Arts                       | 8,719.52      | 11.58                       | 7,895.63      | 8.70                        | 5,242.49      | 9.08                        | 9.78               |

<sup>1</sup>Cost per pupil represents average cost for grade enrolment in County.

<sup>2</sup>Physical Education and Science figures have been corrected to include indirect costs (taken from Table 30, p. 151).





Table 16 (continued)

| Cluster                                              | Grade Four |                | Grade Five |                | Grade Six |                | Mean       |
|------------------------------------------------------|------------|----------------|------------|----------------|-----------|----------------|------------|
|                                                      | Total      | Cost/<br>Pupil | Total      | Cost/<br>Pupil | Total     | Cost/<br>Pupil | Div.<br>II |
| Teacher Supervised<br>Non-Instruction <sup>3</sup>   | 306.37     | 7.47           | 1,047.28   | 8.95           | 407.47    | 5.58           | 7.33       |
| Opportunity Class <sup>4</sup>                       | 9,299.64   | 238.45         |            |                |           |                |            |
| <hr/>                                                |            |                |            |                |           |                |            |
| Per Pupil Direct<br>Cost Per Grade                   | 186.55     |                | 167.42     |                | 201.31    |                | 185.09     |
| Indirect-Implementary<br>Cost Per Grade <sup>5</sup> | 314.29     |                | 311.06     |                | 305.54    |                | 310.29     |
| Total Cost Per Grade                                 | 500.84     |                | 478.48     |                | 506.85    |                | 495.39     |

<sup>3</sup>Teacher Supervised Non-Instruction Time (see Table 25, p.140).

<sup>4</sup>Non-Graded Opportunity Class, not included in grade totals.

<sup>5</sup>Indirect-Implementary Costs Per Grade (taken from Table 31, p. 153).



for reasons already discussed. The lowest range was found in Grade Seven: from \$526.56 to \$649.91 per pupil per year. The preceding figures were of little value in determining the per grade cost within the Division, since the range of costs was too broad. Perhaps a more effective way of arriving at grade costs would be to look at the most common options, which comprise a large part of the most typical programs in Division III grades. There are two limitations to such a consideration. First, an option is deemed common because it has the highest enrolment, which normally causes the per pupil cost to be below the mean. Second, as clusters are no longer considered, some programs are not included in these costs. For example, Supervised Study is omitted. With these limitations noted, the total cost for the most common program in Grade Seven was \$569.30; in Grade Eight, \$543.10; and in Grade Nine, \$508.68 (see Table 17, p. 85).

#### Division IV

Due to different programs, varying rates of student retention, optional courses, and courses of varying credit value, it was difficult to determine grade costs in Division IV. An analysis of program route costs is probably of greater value. The schools offering Division IV in the County of Grande Prairie offered two distinct program routes. The basic composition of these routes was determined by the Superintendent of Schools for the County.

Some restrictions had to be invoked when developing these programs. Wherever possible, optional courses were drawn from those



Table 17

Minimum and Maximum Per Pupil Costs Per Grade in Division III  
in the County of Grande Prairie: 1969-1970

|                                | Grade Seven |        |        | Grade Eight |        |        | Grade Nine |        |        |
|--------------------------------|-------------|--------|--------|-------------|--------|--------|------------|--------|--------|
| Core Subjects                  |             |        |        |             |        |        |            |        |        |
| Language                       |             | 42.41  |        |             | 28.93  |        |            | 61.51  |        |
| Mathematics                    |             | 44.75  |        |             | 44.84  |        |            | 59.56  |        |
| Science                        |             | 31.75  |        |             | 27.82  |        |            | 46.06  |        |
| Social Studies                 |             | 31.17  |        |             | 28.12  |        |            | 49.43  |        |
| Physical Education             |             | 14.76  |        |             | 15.12  |        |            | 16.47  |        |
| Total-Core Prog.               |             | 164.84 |        |             | 144.83 |        |            | 233.03 |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                | Min.        | Most   | Max.   | Min.        | Most   | Max.   | Min.       | Most   | Max.   |
| Cost                           | Cost        | Common | Cost   | Cost        | Common | Cost   | Cost       | Common | Cost   |
| Opts. <sup>1</sup>             | Opts.       | Opts.  | Opts.  | Opts.       | Opts.  | Opts.  | Opts.      | Opts.  | Opts.  |
| 9.23                           | 11.93       | 20.45  | 9.23   | 10.53       | 66.63  | 9.84   | 56.95      | 56.95  | 56.95  |
| 11.44                          | 36.68       | 36.68  | 10.53  | 25.89       | 51.11  | 11.44  | 23.87      | 23.87  | 23.87  |
| 11.93                          | 20.54       | 65.01  | 11.44  | 27.82       | 45.08  | 13.34  | 59.56      | 59.56  | 59.56  |
| 14.27                          | 20.46       | 45.08  | 13.03  | 16.35       | 23.87  | 14.27  | 16.19      | 16.19  | 16.19  |
| 46.87                          | 89.61       | 167.22 | 44.23  | 80.59       | 186.69 | 48.89  | 156.57     | 156.57 | 156.57 |
| 164.84                         | 164.84      | 164.84 | 144.83 | 144.83      | 144.83 | 233.03 | 233.03     | 233.03 | 233.03 |
| 211.71                         | 254.45      | 332.06 | 189.06 | 225.42      | 331.52 | 281.92 | 389.60     | 389.60 | 389.60 |
| Min.-Max. Totals               |             |        |        |             |        |        |            |        |        |
| Core Totals                    |             |        |        |             |        |        |            |        |        |
| Total                          |             |        |        |             |        |        |            |        |        |
| Indirect-                      |             |        |        |             |        |        |            |        |        |
| Implementary Cost <sup>2</sup> | 314.85      | 314.85 | 314.85 | 317.68      | 317.68 | 317.68 | 319.08     | 319.08 | 319.08 |
| Min.-Max. Cost/Grade           | 526.56      | 569.30 | 646.91 | 506.74      | 543.10 | 649.20 | 601.00     | 708.68 | 708.68 |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
|                                |             |        |        |             |        |        |            |        |        |
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categories denoted as Special Interest, Fine Arts, Home Economics, or Industrial Arts, and were placed at the grade level designated. The optional courses used are found in Table 30, p. 151. The arbitrary placement of an option does not always parallel the real situation. In Division IV, for example, a pupil may elect almost any course as an option, either from his own grade level or from lower grade levels. Standardizing electives resulted in more indicative core program costs. The maximum number of credits for Grades Ten and Eleven was 42; for Grade Twelve, 40. These figures can be used for program comparisons.

One matriculation program route was recommended in the County of Grande Prairie. This was the unrestricted matriculation route and is outlined in Table 18. The Business Education route is outlined in Table 19.

The two program routes showed only a \$35.00 difference in minimum costs. Costs ranged from \$1,091.21 per pupil on the unrestricted matriculation program route to \$1,056.21 per pupil on the Business Education route. The maximum costs differed by only \$12.49, ranging from \$1,854.81 for the Business Education route to \$1,867.30 for the unrestricted matriculation program route.

## IX. SUMMARY

This chapter presented the various per pupil costs analyzed in the study. Some of the determinants of these costs, and some of the reasons for differences in these costs, were discussed.

The findings reported were as follows:



Table 18

Minimum and Maximum Per Pupil Costs of the Unrestricted Matriculation  
Program Route in the County of Grande Prairie: 1969-1970

| Courses in Program          | Grade Ten                         |                      | Courses in Program    | Grade Eleven         |                      | Courses in Program    | Grade Twelve         |                      |
|-----------------------------|-----------------------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
|                             | Min. Cost<br>Program <sup>1</sup> | Max. Cost<br>Program |                       | Min. Cost<br>Program | Max. Cost<br>Program |                       | Min. Cost<br>Program | Max. Cost<br>Program |
| English 10 (5) <sup>2</sup> | 42.31                             | 42.31                | Social Studies 20 (5) | 45.33                | 45.33                | English 30 (5)        | 59.39                | 59.39                |
| Social Studies 10 (5)       | 44.23                             | 44.23                | At least two of:      |                      |                      | At least four of:     |                      |                      |
| Mathematics 10 (5)          | 56.50                             | 56.50                | English 20 (5)        | 45.96                | 45.96                | Social Studies 30 (5) | 45.59                |                      |
| French 10 (5)               | 60.95                             | 60.95                | Language 21 (5)       |                      | 48.85                | Mathematics 30 (5)    | 82.68                | 82.68                |
| Physical                    |                                   |                      | Literature 21 (5)     | 43.77                |                      | Mathematics 31 (5)    |                      | 154.98               |
| Education 10 (5)            | 30.36                             | 30.36                | At least three of:    |                      |                      | Biology 30 (5)        | 35.04                |                      |
| I.A. General 10 (5)         | 100.57                            | 396.82               | Mathematics 20 (5)    | 52.06                |                      | Chemistry 30 (5)      |                      | 88.60                |
| At least two of:            |                                   |                      | Chemistry 20 (3)      |                      | 136.93               | Physics 30 (5)        | 78.60                |                      |
| Chemistry 10 (3)            | 26.88                             | 26.88                | Biology 20 (3)        | 50.80                | 115.02               | French 30 (5)         | 93.52                | 93.52                |
| Biology 10 (3)              |                                   | 63.86                | Physics 20 (3)        |                      |                      | Electives:            |                      |                      |
| Physics 10 (3)              | 46.97                             |                      | French 20 (5)         | 101.27               | 101.27               | Economics 30 (5)      |                      | 72.98                |
| Electives:                  |                                   |                      | Electives:            |                      |                      | Physical              |                      |                      |
| Fabrics &                   |                                   |                      | Psychology 20 (5)     | 55.39                | 55.39                | Education 30 (5)      | 18.46                |                      |
| Dresses 10 (5)              | 94.50                             | 94.50                | Art 20 (5)            |                      | 123.12               |                       | 413.28               | 552.15               |
| Art 10 (5)                  |                                   | 123.12               | Physical              |                      |                      |                       |                      |                      |
| Typing 10 (5)               | 33.47                             |                      | Education 20 (5)      | 41.66                |                      |                       |                      |                      |
|                             | 536.74                            | 643.28               |                       | 441.24               | 671.87               |                       |                      |                      |
| TOTAL MINIMUM PROGRAM       | .                                 | .                    | .                     | .                    | .                    | .                     | .                    | 1,091.26             |
| TOTAL MAXIMUM PROGRAM       | .                                 | .                    | .                     | .                    | .                    | .                     | .                    | 1,867.30             |

<sup>1</sup>Cost figures from Table 8. <sup>2</sup>Figures in parentheses represent the credit value of the courses.





Table 19

Minimum and Maximum Per Pupil Costs of the Business Education Program Route  
in the County of Grande Prairie: 1969-1970

| Courses in Program                | Grade Ten                         |                      | Courses in Program       | Grade Eleven         |                      | Courses in Program   | Grade Twelve         |                      |
|-----------------------------------|-----------------------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                   | Min. Cost<br>Program <sup>1</sup> | Max. Cost<br>Program |                          | Min. Cost<br>Program | Max. Cost<br>Program |                      | Min. Cost<br>Program | Max. Cost<br>Program |
| English 10 or 13 (5) <sup>2</sup> | 42.31                             | 53.62                | Math 20 or 22 (5)        | 52.06                | 78.30                | English 30 or 33 (5) | 50.00                | 59.39                |
| Reading 10 (3)                    | 32.68                             | 32.68                | Typing 10 or 20 (5)      | 33.47                | 44.80                | Business             |                      |                      |
| Social Studies 10 (5)             | 44.23                             | 44.23                | Bookkeeping 10 or 20 (5) | 17.59                | 97.75                | Machines 30(5)       | 93.52                | 93.52                |
| Physical                          |                                   |                      | At least one of:         |                      |                      | Typing 20 or 30 (5)  | 44.80                | 101.08               |
| Education 10 (10)                 | 30.36                             | 30.36                | English 20 or 23 (5)     |                      | 51.56                | As required:         |                      |                      |
| Math 10, 12, or 15 (5)            | 43.44                             | 111.95               | Language 21 (5)          |                      |                      | Mathematics          | 43.44                | 158.98               |
| I. A. 10                          | 100.57                            | 100.57               | Literature 21 (5)        | 43.77                |                      | Sciences             |                      |                      |
| Science 11 (5) or                 |                                   | 57.88                | At least one of:         |                      |                      | Social Studies       |                      |                      |
| At least two of:                  |                                   |                      | Social Studies 20 (5)    | 44.23                |                      | At least two of:     |                      |                      |
| Chemistry 10 (3)                  | 26.88                             |                      | Sociology 20 (5)         |                      |                      | Shorthand 30 (10)    |                      | 213.04               |
| Biology 10 (3)                    |                                   | 63.86                | Psychology 20 (5)        |                      | 57.47                | Clerical             |                      |                      |
| Physics 10 (3)                    | 46.97                             |                      | At least one of:         |                      |                      | Practice 20 (5)      | 78.19                |                      |
| Electives:                        |                                   |                      | Shorthand 10 or 20 (5)   |                      |                      | Bookkeeping 20 (5)   |                      |                      |
| Drama 10 (3)                      | 37.52                             | 37.52                | Clerical Practice 20 (5) | 78.19                | 195.80               | Electives:           |                      |                      |
|                                   | 404.91                            | 532.67               | Electives:               |                      |                      | Law 20               | 34.52                |                      |
|                                   |                                   |                      | Art 10 or 20             |                      | 123.12               | Economics 30 (5)     |                      | 51.33                |
|                                   |                                   |                      | Drama 10                 | 37.52                |                      |                      |                      | 673.34               |
|                                   |                                   |                      |                          | 306.83               | 648.80               |                      |                      |                      |
| TOTAL MINIMUM PROGRAM             | .                                 | .                    | .                        | .                    | .                    | .                    | .                    | 1,056.21             |
| TOTAL MAXIMUM PROGRAM             | .                                 | .                    | .                        | .                    | .                    | .                    | .                    | 1,854.81             |

<sup>1</sup>Cost figures taken from Table 8. <sup>2</sup>Figures in parentheses represent the credit value of the courses.





1. the total operational costs of the County of Grande Prairie;
2. County costs per pupil;
3. cost per pupil per school;
4. cost per pupil per subject;
5. cost per pupil per subject cluster;
6. cost per pupil per subject cluster per division; and
7. cost per pupil by grade or program routes.



## Chapter 5

### SUMMARY, FINDINGS AND CONCLUSIONS, IMPLICATIONS AND RECOMMENDATIONS, AND SUGGESTIONS FOR FURTHER RESEARCH

#### I. INTRODUCTION

The purpose of this chapter is to present:

1. a summary of the developments reported in preceding chapters;
2. the major findings;
3. the specific implications and recommendations of these findings;
4. some general recommendations and implications which arise from the analyses; and
5. suggestions for further research and study.

#### II. SUMMARY

The main problem of this study was to conduct an analysis of the financial operations of the County of Grande Prairie school jurisdiction for the 1969-1970 school term.

The first step of the investigation was to prorate school expenditures on the most equitable bases possible. Next, because the analysis was conducted prior to the end of the school year, costs were projected from March 31, 1970 to the year's end, August 31, 1970.

The sources of data varied according to the nature of the information required. The ledgers of the County provided expenditure



data. Faculty Workload Surveys provided information relevant to staff workload. The additional information required, primarily for proration and projection purposes, was obtained through personal interviews.

### III. FINDINGS AND CONCLUSIONS

#### Expenditures Reported

The expenditures subjected to analysis did not include debt service and capital outlay as they are defined in this study; the exclusion of these cost classifications constituted a limiting factor in this and other associated analyses, due to differences in local definitions of these classifications. Therefore, notwithstanding attempts to standardize definitions, data collection, and methodologies, the possibility of dissimilarities of data among different studies exists. This could have a detrimental effect when comparisons of the findings of similar studies are made.

#### Total Expenditures

The total educational costs of the County of Grande Prairie amounted to \$2,064,666.41.

Direct salaries paid to teachers amounted to \$1,153,177.83, or 55.81 per cent of the total costs. This high percentage of the total costs suggests that teaching is labor intensive.

Transportation costs were the second highest classification, accounting for \$363,930.36, or 17.63 per cent of the total costs. High transportation costs were attributed to centralization, which





results in long distances being travelled by students.

### Expenditures Per School

The total expenditures per school ranged from \$82,963.44 in Valhalla School to \$316,724.07 in Harry Balfour School. This range can be attributed mainly to differences in (1) the number of teachers employed, and (2) plant size. As the number of teachers employed increased, so did the costs. Also, as the size of the school plant increased so did the cost of maintenance.

Within the context of the general trend in costs identified, two specific findings become evident. First, there appears to be a point at which administrative costs increased disproportionately as the number of teachers engaged increased. Valhalla School had 6.3 teachers and administrative costs of \$2,158.53, which resulted in a cost of \$342.60 per teacher. Beaverlodge High School, on the other hand, had 19.6 teachers, or approximately three times the staff of Valhalla School, and administrative costs of \$13,933.26 or more than nine times as great as Valhalla School, and a cost per teacher of \$711.00, which is almost twice that of Valhalla School. This increase appears to be a result of (1) more released time for administrators as schools get larger, and (2) the increased employment of full-time administrators in larger schools. Second, teachers' salaries exhibited a wide range of costs, from \$35,282.65 in Bezanson School to \$193,186.74 in Hythe School. This was due mainly to (1) the number of teachers employed, and (2) the teachers' training and experience. It was found that teachers in the smaller



schools had, on the average, more experience, while those schools which contained Division IV employed teachers with more training but less experience. This leads to less cost proportionately in high schools because of the comparatively small number of years of teacher experience.

#### Estimated Per Pupil Cost Per School

The estimated per pupil cost per school ranged from \$625.03 in Beaverlodge Elementary School to \$892.18 in Valhalla School. The average estimated per pupil cost for the County was \$725.71. Four schools--Teepee Creek, Wembley, Harry Balfour, and Beaverlodge Elementary--had a per pupil cost which was less than the average per pupil cost estimated for the County. These differences were due to the number of pupils enrolled, with higher costs occurring in low enrolment schools. This finding indicates that there were economies of scale for larger schools.

Another factor which contributed to the differences in average per pupil costs was the variation in teachers' training and experience, which resulted in a difference in salaries. The number of grades offered in a school also appears to affect the per pupil cost; those schools which offered fewer grades had higher average per pupil costs.

A further finding was that costs for instructional supplies tend to increase in inverse proportion to the enrolment of the school, with the exception of Valhalla School. This was apparently a result of two factors: (1) that the same supplies were bought



for each school and therefore those schools which had a higher enrolment also had a lower per pupil cost, and (2) that the costs were dependent upon teachers and administrators taking advantage of the funds available.

#### Per Pupil Costs in Divisions by Course

Per pupil costs by course were found to vary greatly. In Division I, Reading exhibited the highest per pupil cost (\$82.56 per pupil), while Music had the lowest (\$8.98 per pupil).

Reading once again had the highest per pupil cost in Division II (\$58.50 per pupil). Drama had the lowest cost in Grade Four (\$9.54 per pupil); Creative Writing had the lowest cost in both Grade Five (\$7.24 per pupil) and Grade Six (\$7.26 per pupil).

The differences in per pupil costs by courses were attributed to different pupil enrolments in the courses, and to differing amounts of time spent in each course. Course costs were directly proportional to the amount of time allocated to each course. In Divisions III and IV, optional courses tended to have the highest per pupil cost, with the exception of French. Once again, cost differences were attributed to differences in enrolment and time allocated to the course.

#### Per Pupil Costs by Course Clusters

Per pupil costs by course clusters exhibited a wide range of costs. In Divisions I and II, the Language Arts cluster had the highest cluster cost; Physical Education had the lowest cost. These cost differences were due to differences in enrolments and time





allocated to the course clusters. In Divisions III and IV, the optional courses had the highest cost per enrolment, while the academic subjects, such as Language Arts, had the highest cost per pupil.

The high costs of such optional courses as Home Economics and Industrial Arts were due to low enrolment and long periods of time allocated to these subjects. Indirect costs in these courses, although not available for reasons already stated, could quite likely be significant due to the high costs of equipment and supplies needed for many optional courses. Academic courses such as Language Arts, Mathematics, and Science had high per pupil costs due to the time allotment for these courses.

French had the highest per pupil cost of courses in Division IV due to low enrolment and the long period of time allocated to the Modern Language cluster.

#### Per Pupil Costs by Grade or Program Routes

While course cluster costs are of value in determining areas for specific analysis, a further use of these costs lies in the determination of grade and program.

It was found that the annual costs of educating a pupil in Grades One to Five varied little (from \$478.48 in Grade Five to \$510.19 in Grade One). The differences were a function of varying salaries and enrolments.

Division III costs and program route costs in Division IV increased over Division I and II costs due to (1) the introduction



of optional courses, which tended to have low enrollments and long periods of time allocated to them, and (2) higher direct instructional costs.

Because of the difficulties of establishing grade costs in Division IV, program routes were implemented. The programs which were analyzed for cost comparisons included an Unrestricted Matriculation route and a Business Education Matriculation route. The cost differences between these two programs were easily calculated once the costs per program were established. The Unrestricted Matriculation route was the higher of the two programs in per pupil costs by only a small margin. The fact that the costs of the two program routes were so close is a basis on which to question the popular belief that specialized courses and program routes are much more expensive than are less specialized ones.

#### Summary of Important Findings

Those findings of the study which substantiate previous studies were as follows:

1. direct instructional salaries accounted for more than half the total expenditures because teaching is labor intensive;
2. transportation costs increase with centralization;
3. costs are a function of enrollment;
4. costs are a function of time allocated to courses;
5. costs are a function of teachers' qualifications;
6. per pupil costs by course and by course clusters vary greatly; and
7. costs increased in Divisions III and IV due to the



introduction of optional courses.

Those findings which apply only to the County of Grande Prairie, on the other hand, were as follows:

1. there is a point at which administrative costs increase disproportionately as the number of teachers engaged increases;
2. costs of instructional supplies tend to increase in an inverse proportion to enrollments; and
3. costs of educating a pupil on Unrestricted Matriculation and Business Education routes differed to only a small degree.

#### IV. IMPLICATIONS AND RECOMMENDATIONS

The purpose of this section is to outline the implications and recommendations of this study.

Due to the fact at present that the total expenditures of school systems are not being analyzed, this study recommends that all gross costs reported by jurisdictions under consideration be subjected to analysis in order to further standardize analyses. This recommendation is made with the following provisions:

1. that no attempt be made to allocate Debt Service costs by any but the most general methods until either a different unit of analysis is developed, or an equitable amortization methodology is devised;
2. that studies be viewed longitudinally to guard against the effects of single large purchases chargeable to





specific courses.

The longitudinal studies would enable jurisdictions to make increasingly accurate projections of future expenditures by helping to overcome the idiosyncratic limitations of studies such as this.

To increase the value of cost analyses, they should be as similar as possible so that comparisons can be made with other school districts. This study recommends therefore that a standard accounting system be adopted in cost analyses on a province-wide basis. The benefits of such analyses could then be utilized by both provincial education authorities and local school authorities.

Even if the variables of direct instructional costs, time spent on a course, and enrolment are considered, there is still the possibility of misinterpreting results. For example, high per pupil costs do not necessarily indicate high total course costs. Conversely, high registration results in apparent low cost courses, while total costs may in fact be quite high. This could lead to courses being dropped because of their (1) apparent high costs, (2) low registrations, or (3) high indirect costs due to the purchase of new equipment.

This study recommends that course clusters be employed when viewing the total system-wide program. Use of this method can still determine total costs, per enrolment costs, and costs to the number of pupils in the Division. At the same time, this method provides a clearer indication of the financial emphasis of the curriculum offered. Attention can then be focused on the general areas of the



program. To do this requires the computation of total and per pupil course costs of the courses combined to make up the cluster. With this information available, decisions can be made with regard to combining existing related courses, adding new related courses, increasing enrolment in certain courses, or restructuring the compulsory-optional course program. This study recommends the retention of per pupil course costs but notes the limitations of their use.

From the analysis already presented, it appears that there are priorities afixed to courses. For example, Language, Science, and Mathematics all exhibited high costs due to enrolment and time allocations, while Physical Education and Music had low costs. This study recommends that a review of these existing priorities be undertaken.

It is apparent that in order to reduce total course costs, direct instructional costs must be lowered. Methods which could be utilized with this purpose in mind include (1) increasing the enrolments of existing courses by reducing the number of courses offered, (2) increasing teacher time by either increasing the length of the school day and/or by reducing time off from teaching duties, and (3) by establishing new criteria for determining teachers' salaries, rather than persisting in the use of the old criteria, which are based on length of teachers' experience and training.

#### V. SUGGESTIONS FOR FURTHER RESEARCH

If all methodologies mentioned in the previous section are



standardized, and if future analyses are simplified to permit their annual execution, longitudinal studies of educational expenditures would be assured, provided that school jurisdictions would desire and/or permit such studies.

There probably exists an optimum number of pupils that should be enrolled in a subject, program, or school in order to obtain maximum returns for expenditures. This optimum number is probably controlled by situational variables including the type of learner, the subject being taught, and the size of the school. Attention should be focussed on these variables, as well as on methods for determining the optimum number of pupils. The determination and definition of these variables would have a bearing on determining the adequacy of existing School Foundation Programs.

Another problem related to determining the adequacy or inadequacy of programs deals with the benefits or quality derived from specific expenditures. Do the results justify the expense? This question raises another question: how does one measure the quality or benefits of education? To date, any available measures of output are crude. More efficient means of measuring output should therefore be developed, so that cost decisions can be reached with a view to the educational output generated by educational expenditures.

As with questions of output, not all questions about input are clear. For example, most jurisdictions determine the basic salary of a teacher on the basis of teachers' years of training and experience. This method assumes that a direct relationship exists between quality and, (1) experience and (2) years of teacher education.





There is currently no justification for such relationships.

Cost analyses indicate that inequalities of educational expenditures by Division abound. While much of the expenditure data was not in a form which allowed accurate proration on a Division basis, there is enough evidence to suggest that expenditures are increased in Divisions III and IV whether such expenditures are justifiable. The categories of direct instructional costs and Physical Education and Science equipment increased considerably in Divisions III and IV over Divisions I and II. If the additional services, equipment and supplies are educationally beneficial, what justification exists for their being allocated in varying proportions to different Divisions? For example, guidance counsellors and librarians are found in the Division III and IV levels; are their functions not of any value at lower Divisions? If there is no adequate justification for this state of affairs, then there is no justification for such expenditures.

The implication is clear: common practice is not enough justification for greater expenditures on any class of pupils. Research needs to be directed toward seeking justifications for Divisional per pupil expenditure differences.

An absolute resolution of cost benefit analyses questions does not appear likely, since such analyses are dependent upon the absolute resolution of many other educational questions.



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## APPENDIX A

DIRECT INSTRUCTION BY COURSE AND COURSE CLUSTERS AND  
TEACHER TRAINING AND EXPERIENCE BY SCHOOLS



TABLE 20

ESTIMATED DIRECT INSTRUCTION PER PUPIL COSTS FOR DIVISION I IN EACH OF THE  
TEN SCHOOLS CONTAINING DIVISION I IN THE COUNTY OF GRANDE  
PRAIRIE: 1969-1970

| Course                                                   | Grade | Valhalla |                |                      | La Glace |                |                      | Teepee Creek |                |                      | Bezanson |                |                      |
|----------------------------------------------------------|-------|----------|----------------|----------------------|----------|----------------|----------------------|--------------|----------------|----------------------|----------|----------------|----------------------|
|                                                          |       | Min.     | Enrol-<br>ment | Cost<br>per<br>pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>pupil | Min.         | Enrol-<br>ment | Cost<br>per<br>pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>pupil |
| <u>Language Arts</u><br>Language                         | 1     | 100      | 10             | \$48.46              | 95       | 20             | \$13.03              | 180          | 17             | \$22.81              | 100      | 9              | \$29.22              |
|                                                          | 2     | 105      | 10             | 50.63                | 95       | 16             | 13.03                | 180          | 18             | 22.81                | 100      | 8              | 29.22                |
|                                                          | 3     | 275      | 10             | 77.51                | 140      | 16             | 55.51                | 220          | 10             | 33.97                | 145      | 11             | 22.59                |
| Printing and/or<br>Writing                               | 1     | -        | -              | -                    | 100      | 20             | 24.49                | 80           | 17             | 10.08                | 80       | 9              | 23.14                |
|                                                          | 2     | -        | -              | -                    | 70       | 16             | 17.03                | 80           | 18             | 10.08                | 80       | 8              | 23.14                |
|                                                          | 3     | -        | -              | -                    | 60       | 16             | 8.13                 | 80           | 10             | 17.64                | 50       | 11             | 7.74                 |
| Reading                                                  | 1     | 130      | 10             | 62.93                | 485      | 20             | 120.06               | 225          | 17             | 58.62                | 340      | 9              | 99.85                |
|                                                          | 2     | 130      | 10             | 62.93                | 325      | 16             | 56.25                | 225          | 18             | 55.37                | 340      | 8              | 99.85                |
|                                                          | 3     | 250      | 10             | 70.36                | 325      | 16             | 66.21                | 225          | 10             | 49.58                | 300      | 11             | 46.68                |
| Spelling                                                 | 1     | -        | -              | -                    | -        | -              | -                    | 45           | 17             | 5.66                 | 100      | 9              | 29.22                |
|                                                          | 2     | -        | -              | -                    | 75       | 16             | 13.00                | 45           | 18             | 5.66                 | 100      | 8              | 29.22                |
|                                                          | 3     | -        | -              | -                    | 60       | 16             | 13.56                | 40           | 10             | 8.87                 | 75       | 11             | 11.62                |
| Literature                                               | 3     | -        | -              | -                    | -        | -              | -                    | -            | -              | -                    | -        | -              | -                    |
| Phonics                                                  | 1     | -        | -              | -                    | -        | -              | -                    | -            | -              | -                    | -        | -              | -                    |
|                                                          | 2     | -        | -              | -                    | 35       | 16             | 6.00                 | -            | -              | -                    | -        | -              | -                    |
|                                                          | 3     | 40       | 10             | 6.00                 | 55       | 16             | 11.87                | -            | -              | -                    | -        | -              | -                    |
| <u>Social Studies</u><br>Enterprise or<br>Social Studies | 1     | 125      | 10             | 60.76                | 200      | 20             | 27.41                | 220          | 17             | 27.77                | 180      | 9              | 52.76                |
|                                                          | 2     | 125      | 10             | 60.76                | 200      | 16             | 27.41                | 220          | 18             | 27.77                | 180      | 8              | 52.76                |
|                                                          | 3     | 170      | 10             | 47.70                | 175      | 16             | 31.39                | 215          | 10             | 47.45                | 180      | 11             | 27.97                |









TABLE 20 CONTD.

| Course                                               | Grade | Valhalla            |                |                      | La Glace            |                |                      | Teepee Creek        |                |                      | Bezanson            |                |                      |
|------------------------------------------------------|-------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|
|                                                      |       | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Teacher Super-<br>vised Classroom<br>Non-Instr. Time |       |                     |                |                      |                     |                |                      |                     |                |                      |                     |                |                      |
| Opening                                              | 1     | 25                  | 10             | \$16.64              |                     |                |                      |                     |                |                      |                     |                |                      |
| Exercises                                            | 2     | 40                  | 10             | 18.81                | 25                  | 16             | \$ 6.11              |                     |                |                      | 50                  | 9              | \$14.61              |
|                                                      | 3     | 35                  | 10             | 22.51                |                     | -              |                      |                     |                |                      | 50                  | 8              | 14.61                |
| Library Period                                       | 1     |                     | -              |                      |                     | -              |                      | 45                  | 17             | 5.66                 | 60                  | 11             | 9.25                 |
|                                                      | 2     |                     | -              |                      |                     | -              |                      | 45                  | 18             | 5.66                 | 40                  | 9              | 11.36                |
|                                                      | 3     |                     | -              |                      |                     | -              |                      | 40                  | 10             | 8.82                 | 40                  | 8              | 11.36                |
| Story Time                                           | 1     | 40                  | 10             | 18.81                |                     | -              |                      | 45                  | 17             | 6.23                 | 40                  | 11             | 6.02                 |
|                                                      | 2     | 35                  | 10             | 16.64                |                     | -              |                      | 45                  | 18             | 6.23                 | 50                  | 9              | 14.61                |
|                                                      | 3     |                     | -              |                      |                     | -              |                      |                     | -              |                      | 50                  | 8              | 14.61                |
| Home Room                                            | 1     |                     | -              |                      |                     | -              |                      |                     | -              |                      | 70                  | 11             | 10.76                |
| Period                                               | 2     |                     | -              |                      |                     | -              |                      |                     | -              |                      |                     | -              |                      |



TABLE 20 CONTD.

| Course                                                   | Grade | Elmworth |                |                      | Wembley |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|----------------------------------------------------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                                                          |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| <u>Language Arts</u><br>Language                         | 1     | 110      | 13             | \$45.61              | 190     | 20             | \$52.74              | -                 |                |                      | 185      | 30             | \$24.46              |
|                                                          | 2     | 110      | 14             | 42.36                | 150     | 26             | 33.85                | 315               | 50             | 32.47                | 240      | 26             | 48.57                |
|                                                          | 3     | 225      | 10             | 54.86                | 80      | 24             | 19.76                | 240               | 50             | 26.65                | 215      | 32             | 36.17                |
| Printing and/or<br>Writing                               | 1     | 75       | 13             | 15.00                | -       |                |                      | 135               | 41             | 14.41                | 50       | 30             | 6.41                 |
|                                                          | 2     | 75       | 14             | 15.00                | 25      | 26             | 5.54                 | 50                | 22             | 11.29                | 50       | 26             | 10.07                |
|                                                          | 3     | 60       | 10             | 13.49                | 75      | 24             | 18.72                | 135               | 50             | 15.05                | 80       | 32             | 13.45                |
| Reading                                                  | 1     | 295      | 13             | 97.60                | 395     | 20             | 116.27               | 1155              | 41             | 122.35               | 395      | 30             | 56.77                |
|                                                          | 2     | 295      | 14             | 97.00                | 325     | 26             | 73.54                | 640               | 50             | 66.02                | 300      | 26             | 60.71                |
|                                                          | 3     | 180      | 10             | 41.09                | 300     | 24             | 74.88                | 500               | 50             | 58.97                | 300      | 32.            | 50.55                |
| Spelling                                                 | 1     | 90       | 13             | 17.95                | 80      | 20             | 23.48                | -                 |                |                      | -        |                |                      |
|                                                          | 2     | 90       | 14             | 17.95                | 75      | 26             | 16.92                | 100               | 50             | 10.15                | 40       | 26             | 8.00                 |
|                                                          | 3     | 75       | 10             | 16.94                | 85      | 48             | 10.31                | 150               | 50             | 16.65                | -        |                |                      |
| Literature<br>Phonics                                    | 3     | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |
|                                                          | 1     | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |
|                                                          | 2     | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |
| <u>Social Studies</u><br>Enterprise or<br>Social Studies | 3     | 60       | 10             | 13.49                | -       |                |                      | 85                | 50             | 9.05                 | -        |                |                      |
|                                                          | 1     | 180      | 13             | 36.16                | 230     | 20             | 67.76                | 215               | 41             | 23.38                | 180      | 30             | 23.72                |
|                                                          | 2     | 180      | 14             | 36.16                | 210     | 26             | 47.38                | 345               | 50             | 35.58                | 200      | 26             | 40.28                |
| Health                                                   | 3     | 225      | 10             | 51.44                | 225     | 24             | 56.16                | 360               | 50             | 39.97                | 200      | 32             | 33.62                |
|                                                          | 1     | 35       | 13             | 6.97                 | 60      | 20             | 17.32                | 50                | 41             | 5.19                 | 50       | 30             | 8.52                 |
|                                                          | 2     | 35       | 14             | 6.97                 | 40      | 26             | 8.92                 | 105               | 50             | 10.80                | 40       | 26             | 8.00                 |
|                                                          | 3     | 45       | 10             | 14.55                | 45      | 24             | 11.09                | 75                | 50             | 8.03                 | 40       | 32             | 6.72                 |





TABLE 20. CONTD.

| Course                            | Grade | Elmworth |                |                      | Wembley |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|-----------------------------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                                   |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Mathematics                       | 1     | 300      | 13             | \$116.24             | 275     | 20             | \$80.85              | 455               | 41             | \$49.25              | 240      | 30             | \$31.69              |
|                                   | 2     | 300      | 14             | 107.94               | 225     | 26             | 51.08                | 480               | 52             | 47.66                | 220      | 26             | 44.42                |
|                                   | 3     | 225      | 10             | 113.16               | 300     | 24             | 74.88                | 455               | 51             | 49.82                | 185      | 32             | 31.30                |
| Science                           | 1     | 125      | 13             | 24.91                | 160     | 20             | 36.27                | 240               | 41             | 25.49                | 160      | 30             | 21.13                |
|                                   | 2     | 125      | 14             | 24.91                | 180     | 26             | 40.62                | 360               | 50             | 37.10                | 260      | 26             | 40.28                |
|                                   | 3     | 180      | 10             | 41.09                | 200     | 24             | 49.92                | 285               | 50             | 31.70                | 180      | 32             | 30.38                |
| <u>Fine Arts</u>                  |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Music                             | 1     | 70       | 13             | 18.50                | 45      | 20             | 13.31                | 135               | 41             | 14.41                | 80       | 30             | 10.56                |
|                                   | 2     | 70       | 14             | 18.50                | 80      | 27             | 15.13                | 85                | 50             | 8.36                 | 70       | 26             | 13.17                |
|                                   | 3     | 45       | 10             | 14.55                | 80      | 24             | 17.02                | 50                | 50             | 5.64                 | 70       | 32             | 13.17                |
| Art                               | 1     | 85       | 13             | 17.24                | -       | -              | -                    | 165               | 41             | 17.33                | 50       | 30             | 6.49                 |
|                                   | 2     | 85       | 14             | 17.24                | 30      | 26             | 6.77                 | 90                | 50             | 9.44                 | 40       | 26             | 8.00                 |
|                                   | 3     | 75       | 10             | 16.94                | 45      | 24             | 11.69                | 105               | 56             | 10.78                | 80       | 32             | 13.45                |
| Phys. Educa.                      | 1     | 60       | 13             | 12.05                | 40      | 20             | 11.55                | -                 | -              | -                    | 80       | 30             | 10.56                |
|                                   | 2     | 60       | 14             | 12.05                | 45      | 26             | 10.15                | -                 | -              | -                    | 110      | 26             | 21.64                |
|                                   | 3     | 45       | 10             | 14.55                | 30      | 24             | 7.28                 | -                 | -              | -                    | 30       | 32             | 4.87                 |
| Remedial                          |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| <u>Instruction</u>                |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Rem. Reading                      | 1     | 90       | 13             | 25.57                | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
| Gen. Rem. Ins.                    |       | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |
| Teacher Super-<br>vised Classroom |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| <u>Non-Instr. Time</u>            |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Opening                           | 1     | 75       | 13             | 15.00                | -       |                |                      | 175               | 41             | 18.26                | 100      | 30             | 13.60                |
| Exercises                         | 2     | 75       | 14             | 15.00                | 50      | 26             | 11.08                | 50                | 22             | 11.29                | 100      | 26             | 20.14                |
|                                   | 3     | -        |                |                      | -       |                |                      | 140               | 50             | 15.40                | 60       | 32             | 9.97                 |
| Library Period                    | 1     | -        |                |                      | -       |                |                      | 120               | 41             | 13.85                | -        |                |                      |
|                                   | 2     | -        |                |                      | -       |                |                      | 120               | 50             | 11.28                | -        |                |                      |
|                                   | 3     | -        |                |                      | -       |                |                      | 90                | 50             | 8.49                 | -        |                |                      |



TABLE 20 CONTD.

| Course                     | Grade | Elmworth     |                |                      | Wembley              |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|----------------------------|-------|--------------|----------------|----------------------|----------------------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                            |       | Min.         | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.                 | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Story Time                 | 1     | -            |                | \$                   | -                    |                | \$                   | 90                | 50             | \$ 8.49              | -        |                | \$                   |
|                            | 2     | -            |                |                      | -                    |                |                      | -                 |                |                      | -        |                |                      |
|                            | 3     | 60           | 10             | 13.49                | -                    |                |                      | 100               | 50             | 10.97                | -        |                |                      |
| Home Room Per.             | -     | -            |                |                      | -                    |                |                      | -                 |                |                      | -        |                |                      |
| <hr/>                      |       |              |                |                      |                      |                |                      |                   |                |                      |          |                |                      |
|                            |       | <u>Hythe</u> |                |                      | <u>Harry Balfour</u> |                |                      |                   |                |                      |          |                |                      |
| <u>Language Arts</u>       |       |              |                |                      |                      |                |                      |                   |                |                      |          |                |                      |
| Language                   | 1     | 105          | 40             | 28.35                | 550                  | 67             | 49.70                |                   |                |                      |          |                |                      |
|                            | 2     | 105          | 33             | 35.39                | 390                  | 52             | 39.23                |                   |                |                      |          |                |                      |
|                            | 3     | 60           | 27             | 4.36                 | 310                  | 46             | 29.33                |                   |                |                      |          |                |                      |
| Printing and/or<br>Writing | 1     | 67           | 40             | 20.09                | 250                  | 41             | 26.19                |                   |                |                      |          |                |                      |
|                            | 2     | 75           | 22             | 23.82                | 155                  | 52             | 15.35                |                   |                |                      |          |                |                      |
|                            | 3     | 75           | 37             | 13.69                | 130                  | 40             | 13.03                |                   |                |                      |          |                |                      |
| Reading                    | 1     | 505          | 40             | 86.52                | 820                  | 67             | 72.64                |                   |                |                      |          |                |                      |
|                            | 2     | 465          | 45             | 130.00               | 460                  | 52             | 46.00                |                   |                |                      |          |                |                      |
|                            | 3     | 390          | 37             | 72.82                | 530                  | 46             | 57.93                |                   |                |                      |          |                |                      |
| Spelling                   | 1     | 88           | 40             | 26.62                | 40                   | 26             | 12.65                |                   |                |                      |          |                |                      |
|                            | 2     | 105          | 45             | 30.90                | 80                   | 26             | 15.13                |                   |                |                      |          |                |                      |
|                            | 3     | 107          | 37             | 22.82                | 80                   | 46             | 7.50                 |                   |                |                      |          |                |                      |
| Literature                 | 3     | -            |                |                      | -                    |                |                      |                   |                |                      |          |                |                      |
| Phonics                    |       | -            |                |                      | -                    |                |                      |                   |                |                      |          |                |                      |
| <u>Social Studies</u>      |       |              |                |                      |                      |                |                      |                   |                |                      |          |                |                      |
| Enterprise or              |       |              |                |                      |                      |                |                      |                   |                |                      |          |                |                      |
| Social Studies             | 1     | 158          | 40             | 42.77                | 520                  | 67             | 48.18                |                   |                |                      |          |                |                      |
|                            | 2     | 173          | 45             | 50.23                | 440                  | 52             | 43.39                |                   |                |                      |          |                |                      |
|                            | 3     | 160          | 37             | 33.53                | 385                  | 46             | 38.76                |                   |                |                      |          |                |                      |









TABLE 20. CONTD.

| Course           | Grade | Hythe               |                         | Harry Balfour        |                     |                         |                      |
|------------------|-------|---------------------|-------------------------|----------------------|---------------------|-------------------------|----------------------|
|                  |       | Min.<br>per<br>Week | Enrol-<br>ment<br>Pupil | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment<br>Pupil | Cost<br>per<br>Pupil |
| Opening          | 1     | 67                  | 40                      | \$16.45              | -                   |                         | \$                   |
| Exercises        | 2     | 58                  | 45                      | 17.26                |                     |                         |                      |
|                  | 3     | 67                  | 37                      | 11.03                |                     |                         |                      |
| Library Period   | 1     | 60                  | 40                      | 19.30                | -                   |                         |                      |
|                  | 2     | 55                  | 45                      | 19.69                |                     |                         |                      |
|                  | 3     | 60                  | 37                      | 19.44                |                     |                         |                      |
| Story Time       | 1     | -                   |                         |                      | -                   |                         |                      |
|                  | 2     |                     |                         |                      |                     |                         |                      |
|                  | 3     |                     |                         |                      | 60                  | 22                      | 13.49                |
| Supervised Study | 1     | -                   |                         |                      | -                   |                         |                      |
|                  | 2     |                     |                         |                      | 65                  | 52                      | 6.31                 |
|                  | 3     |                     |                         |                      | -                   |                         |                      |



TABLE 21

ESTIMATED DIRECT INSTRUCTION PER PUPIL COSTS FOR DIVISION II IN EACH OF THE TEN SCHOOLS  
CONTAINING DIVISION II IN THE COUNTY OF GRANDE PRAIRIE: 1969-1970

| Course                    | Grade | Valhalla            |                |                      | La Glace            |                |                      | Teepee Creek        |                |                      | Bezanson            |                |                      |
|---------------------------|-------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|
|                           |       | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Language Arts<br>Language | 4     | 275                 | 14             | \$77.01              | 140                 | 13             | \$33.17              | 220                 | 14             | \$33.97              | 145                 | 11             | \$22.59              |
|                           | 5     | 200                 | 7              | 55.61                | 150                 | 20             | 19.47                | 130                 | 14             | 32.80                | 160                 | 11             | 34.50                |
|                           | 6     | 200                 | 10             | 55.61                | 150                 | 14             | 19.47                | 180                 | 16             | 32.20                | 160                 | 11             | 34.50                |
| Writing                   | 4     | -                   | -              | -                    | 60                  | 13             | 8.13                 | 80                  | 14             | 17.64                | 50                  | 11             | 7.74                 |
|                           | 5     | 70                  | 7              | 19.48                | -                   | -              | -                    | 30                  | 14             | 5.20                 | 40                  | 11             | 8.40                 |
|                           | 6     | 70                  | 10             | 19.48                | -                   | -              | -                    | 30                  | 16             | 5.20                 | 40                  | 11             | 8.40                 |
| Reading                   | 4     | 250                 | 14             | 70.36                | 300                 | 13             | 70.94                | 225                 | 14             | 49.58                | 300                 | 11             | 46.68                |
|                           | 5     | 175                 | 7              | 48.71                | 375                 | 20             | 48.86                | 240                 | 14             | 43.09                | 360                 | 11             | 78.00                |
|                           | 6     | 175                 | 10             | 48.71                | 375                 | 14             | 48.86                | 240                 | 16             | 43.09                | 360                 | 11             | 78.00                |
| Spelling                  | 4     | -                   | -              | -                    | 60                  | 13             | 14.12                | 40                  | 14             | 8.82                 | 75                  | 11             | 11.62                |
| Creative<br>Writing       | 5     | 75                  | 7              | 20.70                | 100                 | 20             | 12.98                | 50                  | 14             | 8.92                 | 80                  | 11             | 17.10                |
|                           | 6     | 75                  | 10             | 20.70                | 100                 | 14             | 12.98                | 50                  | 16             | 8.92                 | 80                  | 11             | 17.10                |
|                           | 4     | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    |
| Phonics                   | 5     | -                   | -              | -                    | -                   | -              | -                    | 45                  | 14             | 7.26                 | -                   | -              | -                    |
|                           | 6     | -                   | -              | -                    | -                   | -              | -                    | 45                  | 16             | 7.26                 | -                   | -              | -                    |
|                           | 4     | 40                  | 14             | 6.00                 | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    |
|                           | 5     | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    |
|                           | 6     | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    | -                   | -              | -                    |



TABLE 21. CONTD.

| Course                | Grade | Valhalla |                |                      | La Glace            |                |                      | Teepee Creek        |                |                      | Bezanson            |                |                      |
|-----------------------|-------|----------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------------|
|                       |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.<br>per<br>Week | Enrol-<br>ment | Cost<br>per<br>Pupil |
| <u>Social Studies</u> |       |          |                |                      |                     |                |                      |                     |                |                      |                     |                |                      |
| Social Studies        | 4     | 170      | 14             | \$47.70              | 175                 | 13             | \$31.39              | 215                 | 14             | \$47.45              | 180                 | 11             | \$27.98              |
| or Enterprise         | 5     | 200      | 7              | 55.61                | 200                 | 20             | 25.96                | 225                 | 14             | 37.00                | 200                 | 11             | 43.20                |
|                       | 6     | 200      | 10             | 55.61                | 200                 | 14             | 25.96                | 225                 | 16             | 37.00                | 200                 | 11             | 43.20                |
| Health                | 4     | 20       | 12             | 7.84                 | 35                  | 13             | 7.84                 | 40                  | 14             | 8.82                 | 40                  | 11             | 8.40                 |
|                       | 5     | 70       | 7              | 19.48                | 35                  | 20             | 5.91                 | 45                  | 14             | 7.26                 | 40                  | 11             | 8.40                 |
|                       | 6     | 70       | 10             | 19.48                | 35                  | 14             | 5.91                 | 45                  | 14             | 7.26                 | 40                  | 11             | 8.40                 |
| Mathematics           | 4     | 330      | 14             | 93.01                | 200                 | 13             | 61.04                | 200                 | 14             | 74.42                | 280                 | 11             | 43.46                |
|                       | 5     | 350      | 7              | 97.41                | 230                 | 20             | 29.93                | 250                 | 14             | 93.15                | 240                 | 11             | 51.90                |
|                       | 6     | 350      | 10             | 97.41                | 230                 | 14             | 29.93                | 265                 | 16             | 70.81                | 240                 | 11             | 51.50                |
| Science               | 4     | 70       | 14             | 32.58                | 215                 | 13             | 107.87               | 180                 | 14             | 27.60                | 140                 | 11             | 21.73                |
|                       | 5     | 70       | 7              | 65.76                | 150                 | 20             | 39.01                | 185                 | 14             | 33.19                | 180                 | 11             | 39.00                |
|                       | 6     | 70       | 10             | 46.68                | 175                 | 14             | 53.55                | 185                 | 16             | 33.19                | 180                 | 11             | 39.00                |
| <u>Fine Arts</u>      |       |          |                |                      |                     |                |                      |                     |                |                      |                     |                |                      |
| Music                 | 4     | 70       | 8              | 19.48                | 60                  | 13             | 13.33                | -                   |                |                      | 40                  | 11             | 10.23                |
|                       | 5     | 105      | 7              | 29.22                | 65                  | 20             | 7.85                 | -                   |                |                      | 40                  | 11             | 10.23                |
|                       | 6     | 105      | 10             | 29.22                | 65                  | 14             | 7.85                 | -                   |                |                      | 40                  | 11             | 10.23                |
| Art                   | 4     | 70       | 14             | 19.48                | 30                  | 13             | 5.23                 | -                   |                |                      | 40                  | 11             | 6.02                 |
|                       | 5     | 70       | 7              | 19.48                | -                   |                |                      | 75                  | 14             | 13.37                | -                   |                |                      |
|                       | 6     | 70       | 10             | 19.48                | -                   |                |                      | 75                  | 16             | 13.37                | -                   |                |                      |
| Drama                 | 4     | 35       | 14             | 9.54                 | -                   |                |                      | -                   |                |                      | -                   |                |                      |
|                       | 5     | -        |                |                      | -                   |                |                      | -                   |                |                      | -                   |                |                      |
|                       | 6     | -        |                |                      | -                   |                |                      | -                   |                |                      | -                   |                |                      |
| Phys. Ed.             | 4     | 35       | 14             | 16.08                | -                   |                |                      | 85                  | 14             | 17.31                | 40                  | 12             | 6.11                 |
|                       | 5     | 35       | 7              | 32.15                | -                   |                |                      | 85                  | 14             | 13.17                | -                   |                |                      |
|                       | 6     | 35       | 10             | 22.51                | -                   |                |                      | 80                  | 16             | 13.71                | -                   |                |                      |





TABLE 21: CONTD.

| Course                                               | Grade | Valhalla |                |                      | La Glace |                |                      | Teepee Creek      |                |                      | Bezanson |                |                      |
|------------------------------------------------------|-------|----------|----------------|----------------------|----------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                                                      |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Teacher Super-<br>vised Classroom<br>Non-Instr. Time | 4     | -        | -              | \$                   | -        | -              | \$                   | -                 | -              | \$                   | 60       | 11             | \$ 9.25              |
|                                                      | 5     | -        | -              |                      | -        | -              |                      | -                 | -              |                      | -        | -              |                      |
|                                                      | 6     | -        | -              |                      | -        | -              |                      | -                 | -              |                      | -        | -              |                      |
| Library                                              | 4     | -        | -              |                      | -        | -              |                      | 40                | 14             | 8.62                 | 40       | 11             | 6.02                 |
|                                                      | 5     | 70       | 7              | 21.53                | -        | -              |                      | 45                | 14             | 7.93                 | 40       | 11             | 8.40                 |
|                                                      | 6     | 70       | 10             | 21.53                | -        | -              |                      | 45                | 16             | 7.53                 | 40       | 11             | 8.40                 |
| Story Time                                           | 4     | -        | -              |                      | 30       | 13             | 5.23                 | -                 | -              |                      | 70       | 11             | 10.76                |
|                                                      | 5     | -        | -              |                      | -        | -              |                      | -                 | -              |                      | -        | -              |                      |
|                                                      | 6     | -        | -              |                      | -        | -              |                      | -                 | -              |                      | -        | -              |                      |
| Language Arts                                        |       | Elmworth |                |                      | Wembley  |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|                                                      |       |          |                |                      |          |                |                      |                   |                |                      |          |                |                      |
| Language                                             | 4     | 225      | 12             | 54.86                | 80       | 19             | 17.83                | 390               | 50             | 42.84                | 200      | 22             | 45.16                |
|                                                      | 5     | 165      | 14             | 38.59                | 370      | 31             | 14.66                | 310               | 51             | 29.60                | 200      | 29             | 34.26                |
|                                                      | 5     | 165      | 9              | 38.59                | 225      | 26             | 43.26                | 320               | 49             | 50.91                | 200      | 22             | 45.16                |
| Writing                                              | 4     | 60       | 12             | 13.49                | 50       | 19             | 11.14                | 115               | 50             | 12.56                | 30       | 22             | 6.59                 |
|                                                      | 5     | 60       | 14             | 13.89                | -        | -              |                      | 130               | 51             | 8.38                 | -        | -              |                      |
|                                                      | 6     | 60       | 9              | 12.89                | -        | -              |                      | 45                | 49             | 5.43                 | -        | -              |                      |
| Reading                                              | 4     | 180      | 12             | 41.09                | 375      | 19             | 84.70                | 530               | 50             | 57.37                | 220      | 22             | 49.87                |
|                                                      | 5     | 275      | 14             | 64.21                | 655      | 31             | 29.81                | 425               | 51             | 44.72                | 270      | 29             | 48.05                |
|                                                      | 6     | 275      | 9              | 64.21                | 330      | 26             | 63.43                | 465               | 49             | 60.39                | 250      | 22             | 43.07                |



TABLE 21: CONTD.

| Course                | Grade | Elmworth |                |                      | Wembley |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|-----------------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                       |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Spelling              | 4     | 75       | 12             | \$16.94              | 95      | 19             | \$21.33              | 185               | 50             | \$20.48              | 30       | 22             | \$ 6.59              |
|                       | 5     | 100      | 14             | 23.15                | 75      | 31             | 6.93                 | 105               | 51             | 10.03                | 40       | 29             | 6.66                 |
|                       | 6     | 100      | 9              | 23.15                | -       | -              | -                    | 80                | 49             | 12.73                | 40       | 22             | 8.78                 |
| Creative Writing      | 4     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
|                       | 5     | -        | -              | -                    | -       | -              | -                    | 40                | 26             | 9.98                 | -        | -              | -                    |
|                       | 6     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
| Phonics               | 4     | 60       | 12             | 13.49                | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
|                       | 5     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
|                       | 6     | 60       | 12             | 13.49                | 45      | 26             | 8.49                 | -                 | -              | -                    | -        | -              | -                    |
| <u>Social Studies</u> |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Social Studies        | 4     | 225      | 12             | 51.44                | 180     | 19             | 40.26                | 475               | 50             | 45.41                | 150      | 22             | 33.87                |
| or Enterprise         | 5     | 225      | 14             | 52.48                | 465     | 62             | 20.73                | 450               | 51             | 41.71                | 200      | 29             | 29.74                |
|                       | 6     | 225      | 9              | 52.48                | 360     | 52             | 19.24                | 450               | 49             | 46.02                | 170      | 22             | 29.26                |
| Health                | 4     | 45       | 12             | 14.55                | 50      | 19             | 11.14                | 145               | 50             | 15.93                | 40       | 22             | 6.79                 |
|                       | 5     | 45       | 14             | 10.50                | 105     | 62             | 4.86                 | 90                | 51             | 9.75                 | 40       | 29             | 5.15                 |
|                       | 6     | 45       | 9              | 10.50                | 40      | 26             | 7.43                 | 135               | 49             | 17.84                | 40       | 22             | 6.79                 |
| Mathematics           | 4     | 225      | 12             | 69.94                | 280     | 19             | 63.37                | 455               | 50             | 49.46                | 205      | 22             | 46.48                |
|                       | 5     | 225      | 11             | 80.83                | 225     | 31             | 36.28                | 470               | 51             | 43.60                | 205      | 29             | 46.48                |
|                       | 6     | 225      | 9              | 93.26                | 275     | 26             | 52.81                | 425               | 49             | 43.44                | 205      | 22             | 46.48                |
| Science               | 4     | 180      | 12             | 41.09                | 165     | 19             | 37.26                | 660               | 50             | 41.63                | 200      | 22             | 34.41                |
|                       | 5     | 180      | 14             | 41.98                | 425     | 31             | 16.81                | 660               | 51             | 41.63                | 130      | 29             | 16.87                |
|                       | 6     | 180      | 9              | 41.98                | 180     | 26             | 34.50                | 575               | 25             | 265.97               | 200      | 22             | 34.41                |
| <u>Fine Arts</u>      |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Music                 | 4     | 45       | 12             | 14.55                | 80      | 22             | 18.57                | 90                | 50             | 9.83                 | 70       | 22             | 13.17                |
|                       | 5     | 65       | 14             | 26.24                | 80      | 30             | 13.62                | 40                | 51             | 6.33                 | 70       | 29             | 13.17                |
|                       | 6     | 65       | 9              | 20.24                | 80      | 26             | 15.71                | 40                | 24             | 9.88                 | 70       | 22             | 13.17                |



TABLE 21 CONTD.

| Course                                               | Grade | Elmworth |                |                      | Wembley |                |                      | Beaverlodge Elem. |                |                      | Sexsmith |                |                      |
|------------------------------------------------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|-------------------|----------------|----------------------|----------|----------------|----------------------|
|                                                      |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.              | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Art                                                  | 4     | 75       | 10             | \$16.94              | 40      | 19             | \$ 8.92              | 80                | 50             | \$10.39              | 80       | 22             | \$17.85              |
|                                                      | 5     | 45       | 14             | 10.50                | 75      | 62             | 3.12                 | 100               | 51             | 10.78                | 80       | 29             | 11.90                |
|                                                      | 6     | 45       | 9              | 10.50                | 35      | 26             | 6.63                 | 75                | 49             | 19.40                | 80       | 22             | 13.81                |
| Drama                                                | 4     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
|                                                      | 5     | -        | -              | -                    | -       | -              | -                    | 45                | 26             | 11.12                | -        | -              | -                    |
|                                                      | 6     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | -        | -              | -                    |
| Phys. Ed.                                            | 4     | 45       | 12             | 14.55                | 45      | 19             | 10.19                | -                 | -              | -                    | 70       | 22             | 15.68                |
|                                                      | 5     | 70       | 13             | 21.78                | 105     | 62             | 4.86                 | -                 | -              | -                    | 80       | 29             | 6.39                 |
|                                                      | 6     | 70       | 9              | 21.72                | 90      | 52             | 4.76                 | 225               | 25             | 8.02                 | 70       | 22             | 11.94                |
| Special Courses                                      |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Opportunity                                          |       |          |                | 689.87               |         |                |                      |                   |                |                      |          |                |                      |
| Remedial Instr.                                      |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Gen. Rem. Instr.                                     | 6     | -        | -              | -                    | -       | -              | -                    | -                 | -              | -                    | 40       | 22             | 8.78                 |
| Teacher Super-<br>vised Classroom<br>Non-Instr. Time |       |          |                |                      |         |                |                      |                   |                |                      |          |                |                      |
| Opening<br>Exercises                                 | 4     | -        |                |                      | 25      | 19             | 10.19                | -                 |                |                      | -        |                |                      |
|                                                      | 5     | -        |                |                      | 35      | 31             | 2.79                 | -                 |                |                      | -        |                |                      |
|                                                      | 6     | -        |                |                      | 25      | 26             | 4.78                 | 25                | 25             | 7.62                 | 25       | 22             | 4.22                 |
| Library                                              | 4     | -        |                |                      | -       |                |                      | 80                | 50             | 7.52                 | -        |                |                      |
|                                                      | 5     | 45       | 14             | 7.11                 | -       |                |                      | 90                | 51             | 8.32                 | -        |                |                      |
|                                                      | 6     | 45       | 9              | 7.11                 | -       |                |                      | 135               | 49             | 8.89                 | -        |                |                      |
| Story Time                                           | 4     | 60       | 12             | 13.49                | 20      | 19             | 4.46                 | -                 |                |                      | -        |                |                      |
|                                                      | 5     | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |
|                                                      | 6     | -        |                |                      | -       |                |                      | -                 |                |                      | -        |                |                      |





TABLE 21. CONTD.

| Course                | Grade | Hythe         |                  | Harry Balfour  |                                |
|-----------------------|-------|---------------|------------------|----------------|--------------------------------|
|                       |       | Min. per Week | Enrol-ment Pupil | Cost per Pupil | Min. per Week Enrol-ment Pupil |
| <u>Language Arts</u>  |       |               |                  |                |                                |
| Language              | 4     | 150           | 29               | \$35.03        | 320 44 \$31.76                 |
|                       | 5     | 360           | 41               | 49.96          | 400 57 27.52                   |
|                       | 6     | 150           | 34               | 34.56          | 480 48 29.63                   |
| Writing               | 4     | -             | -                | -              | -                              |
|                       | 5     | -             | -                | -              | -                              |
|                       | 6     | -             | -                | -              | -                              |
| Reading               | 4     | 235           | 29               | 56.02          | -                              |
|                       | 5     | 720           | 41               | 100.63         | 470 57 33.75                   |
|                       | 6     | 675           | 34               | 113.09         | 445 48 37.88                   |
| Spelling              | 4     | 100           | 29               | 13.40          | 80 44 7.84                     |
|                       | 5     | 135           | 41               | 15.40          | 140 57 9.99                    |
|                       | 6     | 90            | 34               | 17.82          | 140 48 9.37                    |
| Creative Writing      | 4     | -             | -                | -              | -                              |
|                       | 5     | -             | -                | -              | -                              |
|                       | 6     | -             | -                | -              | -                              |
| Phonics               | 4     | -             | -                | -              | 35 22 7.83                     |
|                       | 5     | -             | -                | -              | 70 57 4.25                     |
|                       | 6     | 35            | 34               | 6.85           | -                              |
| Rem. Reading          | 4     | 135           | 9                | 50.36          | 35 22 6.88                     |
|                       | 5     | 135           | 12               | 50.36          | -                              |
|                       | 6     | -             | -                | -              | -                              |
| <u>Social Studies</u> |       |               |                  |                |                                |
| Social Studies        | 4     | 150           | 29               | 35.63          | 755 44 60.91                   |
| or Enterprise         | 5     | 510           | 41               | 83.87          | 470 57 38.32                   |
|                       | 6     | 150           | 34               | 34.36          | 470 48 45.58                   |



TABLE 21. CONTD.

| Course                        | Grade | Hythe         |            |                | Harry Balfour |            |                |
|-------------------------------|-------|---------------|------------|----------------|---------------|------------|----------------|
|                               |       | Min. per Week | Enrol-ment | Cost per Pupil | Min. per Week | Enrol-ment | Cost per Pupil |
| Health                        | 4     | 45            | 29         | \$ 8.76        | 70            | 44         | \$ 7.83        |
|                               | 5     | 30            | 41         | 5.73           | 70            | 57         | 4.92           |
|                               | 6     | 30            | 34         | 5.76           | 70            | 48         | 6.78           |
| Mathematics                   | 4     | 255           | 29         | 49.92          | 270           | 42         | 33.72          |
|                               | 5     | 600           | 41         | 70.62          | 420           | 57         | 42.11          |
|                               | 6     | 675           | 34         | 134.59         | 470           | 48         | 56.00          |
| Science                       | 4     | 275           | 29         | 36.75          | 395           | 44         | 44.32          |
|                               | 5     | 300           | 41         | 28.43          | 390           | 57         | 28.40          |
|                               | 6     | 300           | 34         | 50.88          | 425           | 48         | 38.20          |
| <u>Fine Arts</u>              |       |               |            |                |               |            |                |
| Music                         | 4     | 30            | 29         | 5.83           | 80            | 44         | 4.23           |
|                               | 5     | 60            | 41         | 8.25           | 70            | 57         | 2.92           |
|                               | 6     | 30            | 34         | 4.98           | 70            | 48         | 3.46           |
| Art                           | 4     | 60            | 29         | 11.68          | -             |            |                |
|                               | 5     | 105           | 41         | 11.80          | 105           | 44         | 12.21          |
|                               | 6     | 60            | 34         | 11.79          | 70            | 57         | 4.88           |
| Drama                         |       | -             |            |                | -             |            |                |
| Phys. Ed.                     | 4     | 60            | 29         | 7.97           | 70            | 44         | 7.39           |
|                               | 5     | 60            | 21         | 16.32          | 75            | 57         | 5.49           |
|                               | 6     | 90            | 34         | 17.82          | 115           | 48         | 6.32           |
| Teacher Super-vised Classroom |       |               |            |                |               |            |                |
| <u>Non-Instr. Time</u>        |       |               |            |                |               |            |                |
| Opening Exercises             |       | -             |            |                | -             |            |                |
| Library                       | 4     | 90            | 58         | 22.04          | 70            | 44         | 10.50          |
|                               | 5     | 60            | 41         | 11.46          | 70            | 57         | 8.47           |
|                               | 6     | 60            | 34         | 9.95           | 70            | 48         | 10.00          |
| Story Time                    |       | -             |            |                | -             |            |                |



TABLE 21 : CONTD.

| Course              | Grade | Hythe               |                         | Harry Balfour       |                                 |
|---------------------|-------|---------------------|-------------------------|---------------------|---------------------------------|
|                     |       | Min.<br>per<br>Week | Enrol-<br>ment<br>Pupil | Min.<br>per<br>Week | Cost<br>Enrol-<br>ment<br>Pupil |
| Supervised<br>Study | 4     | -                   | \$                      | -                   | \$                              |
|                     | 5     | -                   |                         | 70                  | 57 5.89                         |
|                     | 6     | -                   |                         | 70                  | 48 7.34                         |
| French              | 4     | -                   |                         | -                   |                                 |
|                     | 5     | -                   |                         | 70                  | 57 5.70                         |
|                     | 6     | -                   |                         | 70                  | 48 6.77                         |





TABLE 22

ESTIMATED DIRECT INSTRUCTION COST FOR DIVISION III IN THE  
COUNTY OF GRANDE PRAIRIE: 1969-1970

| Course               | Grade | Valhalla |                |                      | La Glace |                |                      | Teepee Creek |                |                      | Bezanson |                |                      |
|----------------------|-------|----------|----------------|----------------------|----------|----------------|----------------------|--------------|----------------|----------------------|----------|----------------|----------------------|
|                      |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.         | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Opening Exercises    | 7     | -        |                | \$                   | -        | 18             | \$ 10.83             | -            |                | \$                   | 60       | 11             | \$18.13              |
|                      | 8     | -        |                |                      | 35       |                |                      | -            |                |                      | 60       | 11             | 18.13                |
|                      | 9     | 35       | 9              | 25.44                | -        |                |                      | -            |                |                      | 80       | 20             | 32.86                |
| Supervised Study     | 7     | -        |                |                      | 70       | 14             | 13.78                | 40           | 15             | 6.73                 | -        |                |                      |
|                      | 8     | -        |                |                      | 70       | 19             | 13.78                | 40           | 16             | 6.73                 | -        |                |                      |
|                      | 9     | -        |                |                      | 35       | 18             | 34.10                | -            |                |                      | -        |                |                      |
| Phys. Ed.            | 7     | -        |                |                      | 90       | 14             | 35.89                | 80           | 15             | 10.98                | -        |                |                      |
|                      | 8     | -        |                |                      | 80       | 19             | 32.31                | 80           | 16             | 10.98                | -        |                |                      |
|                      | 9     | -        |                |                      | 80       | 18             | 34.10                | 85           | 11             | 33.09                | -        |                |                      |
| Language             | 7     | 200      | 11             | 45.48                | -        |                |                      | 105          | 15             | 36.34                | 200      | 11             | 14.25                |
|                      | 8     | 200      | 12             | 45.48                | 160      | 19             | 47.37                | 110          | 16             | 35.79                | 200      | 11             | 51.48                |
|                      | 9     | 70       | 9              | 28.25                | 160      | 18             | 50.00                | 205          | 11             | 97.23                | 200      | 20             | 56.63                |
| Reading              | 7     | 70       | 11             | 11.05                | -        |                |                      | -            |                |                      | -        |                |                      |
|                      | 8     | 70       | 12             | 11.05                | -        |                |                      | -            |                |                      | -        |                |                      |
|                      | 9     | 70       | 9              | 28.25                | -        |                |                      | -            |                |                      | -        |                |                      |
| Literature           | 7     | 105      | 11             | 23.71                | 150      | 14             | 25.68                | 160          | 15             | 25.48                | 160      | 11             | 41.25                |
|                      | 8     | 105      | 12             | 23.71                | 150      | 19             | 25.68                | 160          | 16             | 25.48                | 160      | 11             | 41.25                |
|                      | 9     | 105      | 9              | 78.44                | 140      | 18             | 43.75                | 165          | 11             | 74.29                | 160      | 20             | 45.38                |
| Library              | 7     | 35       | 11             | 7.80                 | 75       | 14             | 15.16                | -            |                |                      | 40       | 11             | 10.23                |
|                      | 8     | 35       | 11             | 7.80                 | 75       | 19             | 15.16                | -            |                |                      | 40       | 11             | 10.23                |
|                      | 9     | 35       | 9              | 25.14                | 40       | 18             | 12.50                | -            |                |                      | -        |                |                      |
| Language Arts Option | 7     | -        |                |                      | 215      | 14             | 90.51                | -            |                |                      | -        |                |                      |
|                      | 8     | -        |                |                      | 40       | 19             | 9.30                 | -            |                |                      | -        |                |                      |
|                      | 9     | -        |                |                      | -        |                |                      | -            |                |                      | -        |                |                      |



TABLE 22 CONTD.

[illegible]



TABLE 22 CONTD.

| Course            | Grade | Valhalla      |            |                | La Glace      |            |                | Teepee Creek  |            |                | Bezanson      |            |                |
|-------------------|-------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|
|                   |       | Min. per Week | Enrol-ment | Cost per Pupil | Min. per Week | Enrol-ment | Cost per Pupil | Min. per Week | Enrol-ment | Cost per Pupil | Min. per Week | Enrol-ment | Cost per Pupil |
| Music             | 7     | -             |            | \$             | 70            | 10         | \$22.74        | -             |            | \$             | -             |            | \$             |
| Apprec. Guidance  | 8     | -             |            |                | 70            | 10         | 22.74          | -             |            |                | -             |            |                |
|                   | 7     | -             |            |                | -             |            |                | -             |            |                | -             |            |                |
|                   | 8     | -             |            |                | -             |            |                | -             |            |                | -             |            |                |
|                   | 9     | 70            | 9          | 36.80          | -             |            |                | -             |            |                | -             |            |                |
| Typing            | 9     | 70            | 9          | 28.25          | 40            | 18         | 14.32          | 45            | 11         | 19.81          | 40            | 20         | 16.13          |
|                   |       |               |            |                |               |            |                |               |            |                |               |            |                |
|                   |       |               |            | Elmworth       |               |            |                |               | Wembley    |                |               |            |                |
|                   |       |               |            |                |               |            |                |               |            |                |               |            |                |
| Opening Exercises | 7     | 85            | 17         | 10.59          | -             |            |                | 50            | 28         | 9.13           | -             |            |                |
|                   | 8     | 85            | 19         | 10.59          | -             |            |                | -             |            |                | -             |            |                |
|                   | 9     | 85            | 7          | 54.45          | -             |            |                | 40            | 34         | 6.01           | -             |            |                |
| Supervised Study  | 7     | -             |            |                | -             |            |                | 40            | 28         | 7.30           | 40            | 28         | 6.78           |
|                   | 8     | -             |            |                | -             |            |                | -             |            |                | -             |            |                |
|                   | 9     | -             |            |                | -             |            |                | -             |            |                | -             |            |                |
| Phys. Ed.         | 7     | -             |            |                | 180           | 58         | 15.31          | 80            | 28         | 13.97          | 80            | 46         | 8.92           |
|                   | 8     | -             |            |                | 120           | 30         | 23.76          | 160           | 38         | 20.77          | 80            | 50         | 8.21           |
|                   | 9     | -             |            |                | 120           | 25         | 28.51          | 80            | 34         | 10.15          | 120           | 81         | 7.89           |
| Language          | 7     | 165           | 17         | 20.67          | 200           | 29         | 29.62          | 200           | 29         | 38.83          | 240           | 30         | 46.22          |
|                   | 8     | 165           | 19         | 20.67          | 200           | 30         | 29.36          | 400           | 58         | 37.16          | 240           | 34         | 10.78          |
|                   | 9     | 165           | 7          | 106.31         | 100           | 26         | 44.28          | 200           | 34         | 21.96          | 960           | 83         | 83.35          |
| Reading           | 7     | -             |            |                | 60            | 29         | 14.60          | 120           | 28         | 21.90          | 120           | 30         | 28.82          |
|                   | 8     | -             |            |                | 160           | 30         | 23.54          | 240           | 20         | 61.68          | 120           | 34         | 25.42          |
|                   | 9     | -             |            |                | -             |            |                | 80            | 34         | 12.02          | 120           | 21         | 41.17          |
| Literature        | 7     | 150           | 17         | 18.65          | 120           | 29         | 17.73          | 129           | 28         | 24.68          | -             |            |                |
|                   | 8     | 150           | 19         | 18.65          | 120           | 30         | 17.71          | 120           | 20         | 44.90          | -             |            |                |
|                   | 9     | 170           | 7          | 108.90         | 120           | 25         | 34.22          | 120           | 34         | 13.21          | -             |            |                |





TABLE 22 CONTD.

| Course          | Grade | Elmworth |                |                      | Wembley |                |                      | Sexsmith |                |                      | Hythe |                |                      |
|-----------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|----------|----------------|----------------------|-------|----------------|----------------------|
|                 |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.  | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Home Ec.        | 7     | -        |                | \$                   | -       |                | \$                   | 800      | 73             | \$46.59              | -     |                |                      |
|                 | 8     | -        |                |                      | -       |                |                      | 480      | 47             | 37.99                | -     |                |                      |
|                 | 9     | -        |                |                      | -       |                |                      | 800      | 73             | 41.15                | -     |                |                      |
| Industrial      | 7     | -        |                |                      | -       |                |                      | 720      | 62             | 56.17                | -     |                |                      |
| Arts            | 8     | -        |                |                      | -       |                |                      | 480      | 92             | 25.35                | -     |                |                      |
|                 | 9     | -        |                |                      | -       |                |                      | 400      | 70             | 27.77                | -     |                |                      |
| Art Option      | 7     | -        |                |                      | -       |                |                      | -        |                |                      | 120   | 12             | 72.94                |
|                 | 8     | -        |                |                      | -       |                |                      | -        |                |                      | 120   | 19             | 50.94                |
|                 | 9     | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
| Music Option    |       | -        |                |                      | -       |                |                      | -        |                |                      | 120   | 28             | 20.45                |
| Drama           |       | -        |                |                      | -       |                |                      | -        |                |                      | 300   | 68             | 29.88                |
| Typing Option   |       | -        |                |                      | -       |                |                      | 120      | 22             | 21.95                | -     |                |                      |
| Rem. Reading    |       | -        |                |                      | -       |                |                      | -        |                |                      | 120   | 34             | 16.84                |
| French Option   |       | -        |                |                      | -       |                |                      | -        |                |                      | 60    | 26             | 14.72                |
| Activities      |       | -        |                |                      | -       |                |                      | -        |                |                      | 640   | 408            | 10.41                |
| Art             | 7     | -        |                |                      | 80      | 58             | 8.48                 | -        |                |                      | -     |                |                      |
|                 | 8     | -        |                |                      | 80      | 60             | 8.20                 | -        |                |                      | -     |                |                      |
|                 | 9     | -        |                |                      | 80      | 50             | 9.48                 | -        |                |                      | -     |                |                      |
| Guidance        | 7     | -        |                |                      | -       |                |                      | -        |                |                      | 40    | 29             | 5.22                 |
|                 | 8     | -        |                |                      | -       |                |                      | -        |                |                      | 40    | 34             | 4.45                 |
|                 | 9     | -        |                |                      | 80      | 25             | 13.98                | -        |                |                      | 240   | 104            | 18.99                |
| Language Option |       | -        |                |                      | -       |                |                      | -        |                |                      | 240   | 101            | 15.88                |
| Gymnastics Op.  |       | -        |                |                      | -       |                |                      | -        |                |                      | 160   | 30             | 20.37                |



TABLE 22 CONTD.

| Course                   | Grade | Elmworth |                |                      | Wembley |                |                      | Sexsmith |                |                      | Hythe |                |                      |
|--------------------------|-------|----------|----------------|----------------------|---------|----------------|----------------------|----------|----------------|----------------------|-------|----------------|----------------------|
|                          |       | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.    | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.     | Enrol-<br>ment | Cost<br>per<br>Pupil | Min.  | Enrol-<br>ment | Cost<br>per<br>Pupil |
| Library                  | 7     | 90       | 17             | \$ 7.73              | 80      | 29             | \$ 14.93             | 80       | 28             | \$ 16.45             | -     |                | \$                   |
|                          | 8     | 90       | 19             | 7.73                 | 80      | 30             | 14.43                | 160      | 19             | 48.49                | -     |                |                      |
|                          | 9     | 90       | 7              | 7.73                 | -       |                |                      | 40       | 33             | 6.98                 | -     |                |                      |
| Mathematics              | 7     | 225      | 17             | 49.37                | 180     | 29             | 26.72                | 200      | 29             | 38.83                | 160   | 28             | 31.72                |
|                          | 8     | 225      | 19             | 59.56                | 180     | 30             | 25.81                | 420      | 39             | 53.92                | 160   | 34             | 26.12                |
|                          | 9     | 225      | 7              | 161.66               | 180     | 25             | 30.98                | 200      | 34             | 25.37                | 320   | 40             | 44.59                |
| Rem. Math. Option        |       | -        |                |                      | -       |                |                      | -        |                |                      | 120   | 20             | 38.18                |
| Math. Option             | 7     | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
|                          | 8     | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
|                          | 9     | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
| Math.-Sc. Op.            |       | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
| Social Studies           | 7     | 215      | 11             | 51.48                | 200     | 29             | 26.72                | 160      | 29             | 31.23                | 120   | 20             | 38.18                |
|                          | 8     | 216      | 19             | 26.89                | 200     | 30             | 25.81                | 400      | 38             | 60.61                | 160   | 28             | 46.09                |
|                          | 9     | 215      | 7              | 138.29               | 200     | 25             | 35.24                | 200      | 34             | 21.96                | 200   | 34             | 47.45                |
| Social Studies<br>Option | 7     | 180      | 17             | 9.23                 | -       |                |                      | 40       | 28             | 8.23                 | 160   | 41             | 27.97                |
|                          | 8     | 180      | 19             | 9.23                 | -       |                |                      | -        |                |                      | -     |                |                      |
|                          | 9     | 180      | 7              | 92.15                | 80      | 26             | 35.37                | 80       | 34             | 8.75                 | -     |                |                      |
| Science                  | 7     | 175      | 18             | 18.17                | 180     | 29             | 26.72                | 200      | 28             | 35.04                | 240   | 60             | 23.09                |
|                          | 8     | 175      | 19             | 18.17                | 180     | 30             | 25.81                | 380      | 38             | 56.48                | 160   | 68             | 13.79                |
|                          | 9     | 280      | 7              | 106.66               | 180     | 25             | 31.00                | 200      | 34             | 25.37                | 160   | 41             | 27.97                |
| Science Option           | 7     | -        |                |                      | -       |                |                      | 100      | 27             | 20.46                | -     |                |                      |
|                          | 8     | -        |                |                      | -       |                |                      | 180      | 58             | 16.27                | -     |                |                      |
|                          | 9     | -        |                |                      | -       |                |                      | -        |                |                      | -     |                |                      |
| Health                   | 7     | 90       | 17             | 17.92                | 40      | 29             | 5.84                 | -        |                |                      | 160   | 106            | 9.31                 |
|                          | 8     | 90       | 19             | 17.92                | 40      | 30             | 5.65                 | 80       | 40             | 11.02                | 160   | 112            | 8.81                 |
|                          | 9     | 45       | 7              | 45.73                | 40      | 25             | 6.99                 | 140      | 34             | 9.81                 | 160   | 101            | 9.77                 |



TABLE 22 CONTD.

| Course         | Grade | Beaverlodge High    |                                 | Harry Balfour       |                                 |
|----------------|-------|---------------------|---------------------------------|---------------------|---------------------------------|
|                |       | Min.<br>per<br>Week | Cost<br>Enrol-<br>ment<br>Pupil | Min.<br>per<br>Week | Cost<br>Enrol-<br>ment<br>Pupil |
| Supervised     | 7     | -                   | \$                              | 35                  | \$ 4.05                         |
| Study          | 8     | -                   |                                 | 35                  | 6.06                            |
| Phys. Ed.      | 7     | 160                 | 52 17.10                        | 140                 | 49 12.72                        |
|                | 8     | 160                 | 49 15.46                        | 140                 | 67 9.30                         |
|                | 9     | 170                 | 75 11.69                        | 140                 | 49 13.87                        |
|                | 7     | 640                 | 53 56.44                        | -                   |                                 |
| Language       | 8     | -                   |                                 | 635                 | 134 18.69                       |
|                | 9     | 400                 | 54 53.47                        | -                   |                                 |
| Reading        | 7     | -                   |                                 | -                   |                                 |
|                | 8     | 120                 | 51 16.74                        | -                   |                                 |
| Literature     | 9     | -                   |                                 | -                   |                                 |
|                | 7     | -                   |                                 | 200                 | 150 28.02                       |
| Library        | 8     | -                   |                                 | 320                 | 67 38.27                        |
|                | 9     | 240                 | 53 20.75                        | 320                 | 50 41.51                        |
|                | 7     | -                   |                                 | 70                  | 50 9.66                         |
|                | 8     | -                   |                                 | 70                  | 67 7.21                         |
| Mathematics    | 9     | -                   |                                 | 70                  | 50 9.66                         |
|                | 7     | 400                 | 53 42.16                        | 400                 | 50 45.76                        |
| Math. Option   | 8     | 400                 | 52 42.97                        | -                   |                                 |
|                | 9     | 460                 | 54 33.29                        | -                   |                                 |
|                | 7     | 240                 | 52 25.32                        | -                   |                                 |
|                | 8     | 160                 | 54 13.34                        | -                   |                                 |
| Social Studies | 9     | -                   |                                 | -                   |                                 |
|                | 7     | 400                 | 53 29.90                        | 755                 | 150 26.53                       |
|                | 8     | 400                 | 53 29.90                        | 535                 | 105 25.79                       |
|                | 9     | 400                 | 54 41.06                        | 400                 | 50 55.93                        |





TABLE 22 CONTD.

| Course          | Grade | Beaverlodge High |                           | Harry Balfour |                           |
|-----------------|-------|------------------|---------------------------|---------------|---------------------------|
|                 |       | Min.             | Cost per Enrol-ment Pupil | Min.          | Cost per Enrol-ment Pupil |
| Social Studies  | 7     | -                | \$                        | 35            | \$ 9.49                   |
| Option          | 8     | -                |                           | 35            | 8.24                      |
|                 | 9     | -                |                           | 70            | 9.80                      |
| Science         | 7     | 360              | 53 49.03                  | -             |                           |
|                 | 8     | 360              | 51 43.48                  | 400           | 16.09                     |
|                 | 9     | 360              | 54 41.06                  | 300           | 43.41                     |
| Science Option  | 7     | 240              | 27 42.83                  | 140           | 9.36                      |
|                 | 8     | 160              | 50 19.31                  | 70            | 11.86                     |
|                 | 9     | -                |                           | 70            | 18.07                     |
| Home Ec.        | 7     | 880              | 77 31.34                  | -             |                           |
|                 | 8     | 880              | 57 90.24                  | -             |                           |
|                 | 9     | 860              | 77 71.93                  | -             |                           |
| Industrial Arts | 7     | 640              | 48 77.58                  | -             |                           |
|                 | 8     | 800              | 42 107.53                 | -             |                           |
|                 | 9     | 640              | 46 76.90                  | -             |                           |
| Health          | 7     | 80               | 52 9.12                   | 105           | 7.12                      |
|                 | 8     | 80               | 52 10.00                  | 70            | 5.31                      |
|                 | 9     | 80               | 51 10.20                  | 70            | 7.12                      |
| Art Option      | 7     | -                |                           | 25            | 13.30                     |
|                 | 8     | -                |                           | 70            | 10.08                     |
|                 | 9     | -                |                           | 70            | 11.08                     |
| Art             | 7     | 240              | 53 17.94                  | -             |                           |
|                 | 8     | 160              | 53 11.96                  | -             |                           |
|                 | 9     | -                |                           | -             |                           |
| Guidance        | 9     | -                |                           | 140           | 14.24                     |
| French          | 9     | 160              | 53 16.82                  | -             |                           |
| Music           | 7     | -                |                           | 145           | 6.92                      |
|                 | 8     | -                |                           | 70            | 8.31                      |
|                 | 9     | -                |                           | -             |                           |



TABLE 22 CONTD.

| Course                      | Grade | Beaverlodge High |                      | Harry Balfour    |                      |
|-----------------------------|-------|------------------|----------------------|------------------|----------------------|
|                             |       | Min.<br>per Week | Enrol-<br>ment Pupil | Min.<br>per Week | Enrol-<br>ment Pupil |
| Agric. Option               | 7     | -                | \$                   | -                | \$                   |
|                             | 8     | -                |                      | 70               | 25                   |
|                             | 9     | -                |                      | -                | 15.18                |
| Language Option<br>Spelling | 7     | 640              | 51                   | -                | 71.73                |
|                             | 8     | -                |                      | -                |                      |
|                             | 9     | -                |                      | 70               | 67                   |
|                             |       |                  |                      | -                | 4.50                 |



TABLE 23

Estimated Direct Instructional Costs for Division IV  
In the County of Grande Prairie: 1969-1970

| Course        | SEXSMITH |        |                | HYTHE |        |                | WEMBLEY |        |                | BEAVERLODGE<br>HIGH |        |                |
|---------------|----------|--------|----------------|-------|--------|----------------|---------|--------|----------------|---------------------|--------|----------------|
|               | Min      | En-rol | Cost per pupil | Min   | En-rol | Cost per pupil | Min     | En-rol | Cost per pupil | Min                 | En-rol | Cost per pupil |
| English 10    | 400      | 40     | 37.46          | 200   | 40     | 44.51          | 200     | 26     | 55.05          | 200                 | 37     | 37.30          |
| Reading 10    |          |        |                | 100   | 22     | 32.60          |         |        |                |                     |        |                |
| English 20    | 200      | 26     | 34.74          | 200   | 20     | 48.96          |         |        |                | 200                 | 24     | 57.50          |
| English 23    | 200      | 27     | 33.74          | 200   | 21     | 59.81          |         |        |                | 200                 | 30     | 46.00          |
| Language 21   | 200      | 18     | 50.17          |       |        |                | 120     | 18     | 47.53          | 100                 | 5      | 149.38         |
| Literature 21 | 200      | 36     | 25.09          | 200   | 20     | 62.80          | 120     | 18     | 47.53          | 200                 | 29     | 51.51          |
| English 30    | 200      | 26     | 34.74          | 200   | 8      | 122.40         |         |        |                | 400                 | 48     | 62.24          |
| English 33    | 200      | 17     | 53.12          |       |        |                |         |        |                |                     |        |                |
| English 23/33 |          |        |                | 200   | 27     | 36.27          |         |        |                |                     |        |                |
| Language 22   |          |        |                |       |        |                |         |        |                | 200                 | 18     | 50.35          |
| Social St. 10 | 400      | 34     | 67.71          | 400   | 40     | 52.19          | 200     | 26     | 55.05          | 400                 | 63     | 25.95          |





TABLE 23 CONT.

| Course         | SEXSMITH    |     |            |        | HYTHE          |        |            |     | WEMBLEY        |       |            |    | BEAVERLODGE<br>HIGH |    |            |  |
|----------------|-------------|-----|------------|--------|----------------|--------|------------|-----|----------------|-------|------------|----|---------------------|----|------------|--|
|                | Min per Wk. |     | En-rol mnt |        | Cost per pupil |        | En-rol mnt |     | Cost per pupil |       | En-rol mnt |    | Min per Wk.         |    | En-rol mnt |  |
|                |             |     |            |        |                |        |            |     |                |       |            |    |                     |    |            |  |
| Social Studies | 20          | 400 | 46         | 50.65  | 200            | 15     | 69.50      | 200 | 22             | 53.86 | 200        | 35 | 23.35               |    |            |  |
| Geography      | 20          | 240 | 19         | 72.63  | 200            | 20     | 40.16      |     |                |       |            |    |                     |    |            |  |
| Psychology     | 20          | 200 | 20         | 49.06  | 120            | 23     | 52.24      | 120 | 6              | 88.57 |            |    |                     |    |            |  |
| Sociology      | 20          | 100 | 27         | 26.55  |                |        |            |     |                |       |            |    | 200                 | 15 | 113.13     |  |
| Law            | 20          | 100 | 30         | 23.90  | 200            | 21     | 49.70      |     |                |       |            |    |                     |    |            |  |
| Social St.30   | 200         | 23  | 50.05      | 200    | 5              | 208.75 |            |     |                |       |            |    | 400                 | 56 | 29.19      |  |
| Economics      | 30          | 200 | 15         | 96.33  |                |        |            |     |                |       |            |    | 200                 | 16 | 51.08      |  |
| Mathematics    | 10          | 400 | 45         | 53.07  | 200            | 20     | 64.12      | 200 | 18             | 47.73 | 400        | 52 | 34.57               |    |            |  |
| Mathematics    | 12          | 200 | 18         | 61.12  |                |        |            |     |                |       | 200        | 8  | 111.95              |    |            |  |
| Mathematics    | 15          | 200 | 22         | 39.20  | 200            | 24     | 53.44      |     |                |       | 200        | 24 | 37.32               |    |            |  |
| Mathematics    | 20          | 200 | 42         | 36.32  | 200            | 18     | 71.25      | 200 | 17             | 50.54 | 400        | 42 | 60.20               |    |            |  |
| Mathematics    | 30          | 200 | 12         | 127.13 | 200            | 6      | 185.95     |     |                |       | 400        | 41 | 54.55               |    |            |  |
| Mathematics    | 31          | 200 | 8          | 190.69 |                |        |            |     |                |       | 200        | 10 | 126.42              |    |            |  |



TABLE 23 CONT.

| Course         | SEXSMITH          |                   |                      | HYTHE             |                   |                      | WEMBLEY           |                   |                      | BEAVERLODGE<br>HIGH |                   |                      |
|----------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------|-------------------|----------------------|
|                | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk.   | En-<br>rol<br>mnt | Cost<br>per<br>pupil |
| Mathematics 32 | 100               | 7                 | 78.30                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Biology 10     | 400               | 45                | 49.50                |                   |                   |                      | 400               | 25                | 89.70                |                     |                   |                      |
| Chemistry 10   | 200               | 37                | 29.73                | 100               | 20                | 19.06                | 120               | 18                | 28.59                | 200                 | 44                | 27.33                |
| Physics 10     | 200               | 25                | 52.21                | 120               | 16                | 47.73                | 120               | 14                | 36.76                |                     |                   |                      |
| Science 11     |                   |                   |                      | 200               | 17                | 75.44                |                   |                   |                      | 200                 | 27                | 46.82                |
| Biology 20     | 400               | 40                | 55.69                |                   |                   |                      |                   |                   |                      | 400                 | 48                | 46.72                |
| Chemistry 20   | 400               | 22                | 136.93               |                   |                   |                      | 120               | 11                | 46.78                | 200                 | 40                | 30.07                |
| Physics 20     | 400               | 18                | 169.50               |                   |                   |                      | 120               | 13                | 39.58                |                     |                   |                      |
| Physics 22     |                   |                   |                      |                   |                   |                      |                   |                   |                      | 200                 | 18                | 54.02                |
| Chemistry 30   | 200               | 17                | 88.60                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Physics 30     | 200               | 8                 | 190.69               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Biology 30     |                   |                   |                      |                   |                   |                      |                   |                   |                      | 400                 | 64                | 35.04                |
| French 10      | 200               | 28                | 57.50                | 200               | 16                | 78.50                | 200               | 13                | 110.11               | 400                 | 50                | 44.49                |
| French 20      | 200               | 11                | 146.37               |                   |                   |                      | 200               | 6                 | 238.57               |                     |                   |                      |



TABLE 23 CONT.

| Course            | SEXSMITH          |                   |                      | HYTHE             |                   |                      | WEMBLEY           |                   |                      | BEAVERLODGE<br>HIGH |                   |                      |
|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------|-------------------|----------------------|
|                   | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk.   | En-<br>rol<br>mnt | Cost<br>per<br>pupil |
| French 30         | 200               | 18                | 89.45                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Occupations 10    | 100               | 16                | 21.08                |                   |                   |                      | 100               | 15                | 35.95                |                     |                   |                      |
| Bookkeeping 10    | 200               | 15                | 96.33                | 200               | 24                | 40.80                |                   |                   |                      | 200                 | 30                | 40.90                |
| Record Keep. 10   | 100               | 20                | 17.59                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Shorthand 10      | 200               | 12                | 142.02               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Typewriting 10    | 320               | 59                | 39.26                | 200               | 24                | 33.47                | 200               | 26                | 28.09                | 400                 | 64                | 38.47                |
| Bookkeeping 20    | 200               | 17                | 85.00                | 200               | 6                 | 133.88               |                   |                   |                      |                     |                   |                      |
| Shorthand 20      | 200               | 13                | 131.10               | 200               | 6                 | 335.97               |                   |                   |                      |                     |                   |                      |
| Clerical Prct. 20 | 200               | 16                | 106.52               | 200               | 15                | 47.97                |                   |                   |                      |                     |                   |                      |
| Typewriting 20    | 200               | 29                | 49.83                | 200               | 14                | 51.40                | 200               | 26                | 28.09                |                     |                   |                      |
| Business Mach 30  | 200               | 9                 | 189.37               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Shorthand 30      | 200               | 8                 | 213.04               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Typewriting 30    | 200               | 16                | 106.52               |                   |                   |                      |                   |                   |                      |                     |                   |                      |





TABLE 23 CONT.

| Course                       | SEXSMITH          |                   |                      | HYTHE             |                   |                      | WEMBLEY           |                   |                      | BEAVERLODGE<br>HIGH |                   |                      |
|------------------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------|-------------------|----------------------|
|                              | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk.   | En-<br>rol<br>mnt | Cost<br>per<br>pupil |
| Office Pract 30              |                   |                   |                      | 200               | 20                | 40.16                |                   |                   |                      | 200                 | 13                | 94.38                |
| Typing 10/20                 |                   |                   |                      | 200               | 24                | 33.47                |                   |                   |                      |                     |                   |                      |
| Typing 9 (Special)           |                   |                   |                      |                   |                   |                      |                   |                   |                      | 160                 | 2                 | 492.48               |
| Physical Ed 10               | 200               | 21                | 46.72                | 200               | 20                | 40.16                | 160               | 26                | 36.33                | 480                 | 93                | 30.78                |
| Physical Ed 20               | 200               | 16                | 61.32                | 40                | 15                | 18.81                | 160               | 22                | 42.93                |                     |                   |                      |
| Guidance 9                   | 80                | 34                | 19.98                |                   |                   |                      |                   |                   |                      | 160                 | 106               | 11.47                |
| Hom-Ec Crafts 10             |                   |                   |                      | 200               | 23                | 31.29                |                   |                   |                      |                     |                   |                      |
| Fabrics-Dress 10             | 160               | 6                 | 94.50                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Food-Nutric 20               | 50                | 2                 | 99.79                |                   |                   |                      |                   |                   |                      | 320                 | 17                | 132.60               |
| Hom-Ec Level<br>I & II mixed | 160               | 11                | 59.23                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| I. A. General 10             | 320               | 4                 | 396.82               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| I. A. Gen 20                 | 320               | 5                 | 317.46               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| I. A. Gen 30                 | 320               | 4                 | 396.82               |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| I. A. 10, 11, 12             | 320               | 15                | 102.56               |                   |                   |                      |                   |                   |                      | 320                 | 16                | 98.70                |



TABLE 23 CONT.

| Course                   | SEXSMITH          |                   |                      | HYTHE             |                   |                      | WEMBLEY           |                   |                      | BEAVERLODGE<br>HIGH |                   |                      |
|--------------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------|-------------------|----------------------|
|                          | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk. | En-<br>rol<br>mnt | Cost<br>per<br>pupil | Min<br>per<br>Wk.   | En-<br>rol<br>mnt | Cost<br>per<br>pupil |
| Noon Hour<br>Supervision | 200               | 160               | 6.13                 |                   |                   |                      |                   |                   |                      | 200                 | 340               | 2.86                 |
| High School<br>Library   | 600               | 1                 | 3454.65              |                   |                   |                      |                   |                   |                      | 880                 | 1                 | 3987.50              |
| Study Hall               | 840               | 284               | 30.53                |                   |                   |                      |                   |                   |                      |                     |                   |                      |
| Drama 10                 |                   |                   |                      | 100               | 20                | 31.19                | 100               | 11                | 49.02                |                     |                   |                      |
| Art 10/20                |                   |                   |                      |                   |                   |                      |                   |                   |                      | 240                 | 12                | 123.12               |
| Guidance<br>Counselling  |                   |                   |                      | 320               | 201               | 14.66                | 160               | 63                | 14.66                | 320                 | 315               | 14.66                |



Table 24

Direct Instructional Costs by Course Cluster for Divisions I and II by  
School for the County of Grande Prairie: 1969-1970

| Cluster            | Valhalla |                 |                | La Glace |                 |                | Teepee Creek |                 |                |
|--------------------|----------|-----------------|----------------|----------|-----------------|----------------|--------------|-----------------|----------------|
|                    | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total        | Cost/<br>Enrol. | Cost/<br>Pupil |
| <u>Division I</u>  |          |                 |                |          |                 |                |              |                 |                |
| Social Studies     | 2,003.78 | 31.31           | 62.62          | 1,872.18 | 18.17           | 36.00          | 1,845.77     | 19.63           | 40.13          |
| Language           | 4,751.14 | 40.81           | 142.83         | 9,040.79 | 26.99           | 180.82         | 5,388.28     | 19.52           | 117.14         |
| Mathematics        | 2,186.72 | 68.34           | 68.34          | 3,199.05 | 61.52           | 61.52          | 3,438.30     | 76.41           | 76.41          |
| Science            | 966.66   | 32.22           | 32.08          | 2,598.65 | 49.97           | 49.97          | 1,202.36     | 22.69           | 26.14          |
| Physical Education | 368.97   | 12.30           | 12.30          | 354.63   | 7.24            | 7.09           | 675.93       | 14.38           | 14.69          |
| Fine Arts          | 1,830.22 | 16.79           | 57.19          | 554.46   | 8.40            | 10.66          | 675.93       | 14.38           | 14.69          |
| Non-Instr. Time    | 354.42   | 17.72           | 17.72          | 97.75    | 6.11            | 1.88           |              |                 |                |
| <u>Division II</u> |          |                 |                |          |                 |                |              |                 |                |
| Social Studies     | 1,942.93 | 33.49           | 64.76          | 1,640.33 | 17.09           | 34.17          | 2,003.24     | 23.85           | 45.53          |
| Language           | 4,768.36 | 35.85           | 155.61         | 4,776.22 | 18.95           | 99.50          | 4,767.58     | 19.38           | 108.35         |
| Mathematics        | 3,888.36 | 95.59           | 95.59          | 1,781.20 | 38.72           | 38.72          | 3,478.91     | 79.07           | 79.07          |
| Science            | 1,381.05 | 44.55           | 44.55          | 2,932.30 | 62.39           | 62.39          | 1,492.32     | 31.09           | 33.92          |
| Physical Education | 675.18   | 21.78           | 21.78          | 378.98   | 8.24            | 7.90           | 602.67       | 14.35           | 13.70          |
| Fine Arts          | 1,699.78 | 18.68           | 54.83          | 541.41   | 5.58            | 11.28          | 861.68       | 11.97           | 19.58          |
| Non-Instr. Time    |          |                 |                |          |                 |                |              |                 |                |





Table 24 (continued)

| Cluster            | Bezanson |                 |                | Elmworth |                 |                | Sexsmith  |                 |                |
|--------------------|----------|-----------------|----------------|----------|-----------------|----------------|-----------|-----------------|----------------|
|                    | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total     | Cost/<br>Enrol. | Cost/<br>Pupil |
| <u>Division I</u>  |          |                 |                |          |                 |                |           |                 |                |
| Social Studies     | 1,381.11 | 27.62           | 55.24          | 1,824.33 | 24.65           | 49.31          | 3,513.36  | 19.96           | 39.92          |
| Language           | 4,369.32 | 29.13           | 175.88         | 6,155.15 | 31.56           | 166.36         | 10,727.46 | 22.82           | 121.90         |
| Mathematics        | 1,596.53 | 63.86           | 63.86          | 4,153.80 | 112.26          | 112.26         | 3,107.46  | 35.31           | 35.31          |
| Science            | 919.01   | 36.76           | 36.76          | 1,074.49 | 29.04           | 29.04          | 2,653.06  | 30.15           | 30.15          |
| Physical Education | 195.68   | 7.53            | 7.83           | 470.98   | 12.73           | 12.73          | 1,035.54  | 9.08            | 11.77          |
| Fine Arts          | 355.02   | 10.76           | 14.20          | 814.37   | 17.33           | 22.01          | 1,149.78  | 9.74            | 13.07          |
| Non-Instr. Time    | 322.42   | 12.90           | 12.90          | 405.05   | 15.00           | 10.92          | 1,237.42  | 14.06           | 14.06          |
| <u>Division II</u> |          |                 |                |          |                 |                |           |                 |                |
| Social Studies     | 1,644.33 | 22.84           | 45.60          | 2,240.20 | 32.00           | 64.00          | 2,699.50  | 18.49           | 36.98          |
| Language           | 4,696.68 | 23.96           | 130.46         | 5,219.78 | 27.91           | 149.14         | 8,626.75  | 22.12           | 118.17         |
| Mathematics        | 1,750.18 | 48.62           | 48.62          | 2,810.20 | 80.29           | 80.29          | 3,346.50  | 46.48           | 45.84          |
| Science            | 1,162.19 | 32.28           | 32.28          | 1,458.60 | 41.67           | 41.67          | 2,003.35  | 27.44           | 27.44          |
| Physical Education | 91.73    | 3.99            | 2.55           | 674.15   | 19.26           | 19.26          | 984.55    | 9.56            | 13.49          |
| Fine Arts          | 452.52   | 9.05            | 12.57          | 1,084.80 | 15.50           | 31.00          | 2,867.15  | 29.26           | 39.28          |
| Non-Instr. Time    | 129.52   | 9.25            | 3.60           |          |                 |                | 486.00    | 11.05           | 6.67           |



Table 24 (continued)

| Cluster            | Wembley   |                 |                | Beaverlodge Elementary |                 |                | Hythe     |                          |
|--------------------|-----------|-----------------|----------------|------------------------|-----------------|----------------|-----------|--------------------------|
|                    | Total     | Cost/<br>Enrol. | Cost/<br>Pupil | Total                  | Cost/<br>Enrol. | Cost/<br>Pupil | Total     | Cost/<br>Enrol.<br>Pupil |
| <u>Division I</u>  |           |                 |                |                        |                 |                |           |                          |
| Social Studies     | 4,779.77  | 34.14           | 68.28          | 5,890.77               | 20.89           | 41.78          | 5,907.71  | 25.35                    |
| Language           | 10,441.38 | 36.77           | 149.16         | 19,702.84              | 28.35           | 139.74         | 22,134.64 | 35.08                    |
| Mathematics        | 4,762.12  | 67.74           | 67.74          | 7,038.63               | 48.88           | 49.92          | 7,233.21  | 59.29                    |
| Science            | 2,979.48  | 42.56           | 42.56          | 4,485.30               | 31.81           | 31.81          | 4,231.07  | 34.68                    |
| Physical Education | 669.72    | 9.57            | 9.57           |                        |                 |                | 1,199.88  | 9.84                     |
| Fine Arts          | 1,525.48  | 12.61           | 21.79          | 3,087.37               | 10.72           | 21.90          | 1,693.48  | 8.43                     |
| Non-Instr. Time    | 288.00    | 11.08           | 4.11           | 1,767.23               | 15.64           | 12.53          | 1,829.22  | 14.99                    |
| Opportunity Room   | 1,021.25  | 68.08           |                | 8,278.39               | 344.93          |                |           |                          |
| <u>Division II</u> |           |                 |                |                        |                 |                |           |                          |
| Social Studies     | 3,766.44  | 15.69           | 49.69          | 8,823.73               | 29.41           | 58.82          | 6,314.25  | 30.36                    |
| Language           | 8,615.89  | 26.27           | 113.37         | 19,581.23              | 24.51           | 130.54         | 18,198.46 | 36.40                    |
| Mathematics        | 3,701.75  | 48.71           | 48.71          | 6,817.55               | 45.45           | 45.45          | 8,919.13  | 85.76                    |
| Science            | 2,647.19  | 24.76           | 34.83          | 9,437.31               | 73.73           | 62.92          | 3,961.17  | 38.09                    |
| Physical Education | 742.54    | 5.58            | 9.77           | 2,015.45               | 80.62           | 13.43          | 1,179.52  | 14.06                    |
| Fine Arts          | 1,760.72  | 9.52            | 23.17          | 3,123.17               | 11.32           | 20.84          | 1,900.24  | 9.14                     |
| Non-Instr. Time    | 313.61    | 4.13            | 4.13           | 399.37                 | 7.99            | 2.66           |           | 18.27                    |



Table 24 (continued)

| Cluster            | Total     | Harry Balfour   |                |
|--------------------|-----------|-----------------|----------------|
|                    |           | Cost/<br>Enrol. | Cost/<br>Pupil |
| <u>Division I</u>  |           |                 |                |
| Social Studies     | 9,001.78  | 29.51           | 54.56          |
| Language           | 27,636.40 | 26.37           | 167.50         |
| Mathematics        | 9,442.50  | 51.04           | 57.23          |
| Science            | 6,943.48  | 42.08           | 42.08          |
| Physical Education | 1,353.46  | 7.09            | 8.20           |
| Fine Arts          | 3,250.68  | 9.13            | 19.70          |
| Non-Instr. Time    | 328.20    | 6.31            | 1.99           |
| <u>Division II</u> |           |                 |                |
| Social Studies     | 8,629.88  | 26.23           | 57.91          |
| Language           | 12,208.81 | 15.36           | 81.94          |
| Mathematics        | 6,504.20  | 44.25           | 43.65          |
| Science            | 5,574.55  | 27.73           | 37.41          |
| Physical Education | 1,572.96  | 6.12            | 10.56          |
| Fine Arts          | 1,333.95  | 5.34            | 8.95           |
| Non-Instr. Time    | 767.87    | 5.77            | 5.15           |
| French             | 650.00    | 6.19            | 4.36           |





Table 25

Direct Instructional Costs by Course Cluster for Divisions III and IV by  
School for the County of Grande Prairie: 1969-1970

| Cluster            | Valhalla |                 |                | La Glace |                 |                | Teepee Creek |                 |                |
|--------------------|----------|-----------------|----------------|----------|-----------------|----------------|--------------|-----------------|----------------|
|                    | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total    | Cost/<br>Enrol. | Cost/<br>Pupil | Total        | Cost/<br>Enrol. | Cost/<br>Pupil |
| Division III       |          |                 |                |          |                 |                |              |                 |                |
| Social Studies     | 2,166.59 | 67.71           | 67.71          | 3,951.52 | 40.32           | 77.48          | 2,761.41     | 52.10           | 65.75          |
| Language           | 4,108.19 | 39.13           | 128.38         | 5,073.89 | 32.89           | 99.49          | 4,209.87     | 36.61           | 100.23         |
| Mathematics        | 2,833.71 | 88.55           | 88.55          | 4,372.76 | 85.74           | 85.74          | 2,154.29     | 51.29           | 51.29          |
| Science            | 2,680.26 | 83.76           | 83.76          | 3,324.54 | 65.19           | 65.19          | 1,496.85     | 35.64           | 35.64          |
| Physical Education | 911.46   | 22.23           | 28.48          | 2,235.32 | 21.91           | 43.83          | 1,062.47     | 12.65           | 25.30          |
| Home Economics     |          |                 |                |          |                 |                |              |                 |                |
| Industrial Arts    |          |                 |                |          |                 |                |              |                 |                |
| Supervised Non-    |          |                 |                |          |                 |                |              |                 |                |
| Instruction        | 629.75   | 15.36           | 19.68          | 1,359.92 | 13.46           | 26.67          | 215.47       | 6.73            | 51.30          |
| Business Education |          |                 |                |          |                 |                |              |                 |                |
| Fine Arts          | 351.14   | 15.27           | 10.97          |          |                 |                |              |                 |                |
| Modern Language    |          |                 |                |          |                 |                |              |                 |                |



Table 25 (continued)

| Cluster               | Bezanson |                 | Elmworth |                 | Wembley  |                 |
|-----------------------|----------|-----------------|----------|-----------------|----------|-----------------|
|                       | Total    | Cost/<br>Enrol. | Total    | Cost/<br>Enrol. | Total    | Cost/<br>Enrol. |
| Division III          |          |                 |          |                 |          |                 |
| Social Studies        | 2,265.00 | 53.93           | 2,913.50 | 33.88           | 3,742.69 | 34.02           |
| Language              | 4,080.00 | 48.57           | 3,659.95 | 28.37           | 5,922.20 | 25.97           |
| Mathematics           | 5,281.90 | 85.19           | 3,102.50 | 56.41           | 2,323.80 | 27.66           |
| Science               | 1,326.45 | 60.29           | 1,400.65 | 32.57           | 2,324.40 | 27.67           |
| Physical Education    | 2,002.76 | 18.89           | 1,727.45 | 20.09           | 3,176.40 | 14.31           |
| Home Economics        |          |                 |          |                 |          |                 |
| Industrial Arts       |          |                 |          |                 |          |                 |
| Supervised Non-       |          |                 |          |                 |          |                 |
| Instruction           | 225.00   | 10.23           |          |                 | 1,578.82 | 26.31           |
| Business Education    |          |                 |          |                 |          |                 |
| Fine Arts             |          |                 |          |                 | 1,457.79 | 8.78            |
| Modern Language       |          |                 |          |                 |          |                 |
| Division IV*          |          |                 |          |                 |          |                 |
| Social Studies        |          |                 |          |                 | 1,716.47 | 61.30           |
| Language Arts         |          |                 |          |                 | 3,142.37 | 50.68           |
| Science               |          |                 |          |                 | 2,058.40 | 36.76           |
| Modern Language       |          |                 |          |                 | 2,862.86 | 150.86          |
| Physical Education    |          |                 |          |                 | 944.46   | 36.33           |
| Business Education    |          |                 |          |                 | 1,460.70 | 28.09           |
| Mathematics           |          |                 |          |                 | 1,718.20 | 49.09           |
| Home Economics        |          |                 |          |                 |          |                 |
| Fine Arts             |          |                 |          |                 | 539.22   | 49.02           |
| Supervised Non-Instr. |          |                 |          |                 | 2,307.12 | 104.87          |
| Industrial Arts       |          |                 |          |                 |          | 141             |

\*This school only goes up to Grade XI.



Table 25 (continued)

| Cluster               | Sexsmith  |                 | Beaverlodge High |                 |                | Hythe     |                          |
|-----------------------|-----------|-----------------|------------------|-----------------|----------------|-----------|--------------------------|
|                       | Total     | Cost/<br>Enrol. | Total            | Cost/<br>Enrol. | Cost/<br>Pupil | Total     | Cost/<br>Enrol.<br>Pupil |
| <u>Division III</u>   |           |                 |                  |                 |                |           |                          |
| Social Studies        | 4,483.29  | 27.50           | 5,692.86         | 26.73           | 37.74          | 4,050.45  | 39.32                    |
| Language              | 8,321.75  | 29.20           | 11,490.06        | 43.86           | 72.72          | 14,460.73 | 14.04                    |
| Mathematics           | 4,091.40  | 40.11           | 8,324.51         | 31.41           | 52.69          | 5,086.95  | 49.39                    |
| Science               | 5,485.64  | 29.65           | 9,344.82         | 39.77           | 59.14          | 3,469.59  | 33.69                    |
| Physical Education    | 2,988.59  | 14.37           | 5,254.67         | 12.02           | 33.26          | 7,308.81  | 70.96                    |
| Home Economics        | 7,878.41  | 40.82           | 13,095.93        | 62.07           | 82.89          | 572.70    | 5.56                     |
| Industrial Arts       | 7,758.63  | 34.64           | 11,777.18        | 86.60           | 74.54          |           |                          |
| Supervised Non-Instr. | 11,672.26 | 19.92           | 7,357.55         | 11.25           | 46.57          | 4,678.67  | 45.42                    |
| Business Education    |           |                 | 984.96           | 492.48          | 6.00           | 841.55    | 8.17                     |
| Fine Arts             |           |                 | 1,584.90         | 14.95           | 10.03          | 4,437.26  | 43.08                    |
| Modern Language       |           |                 | 891.33           | 16.82           | 5.64           | 370.92    | 3.60                     |
| <u>Division IV*</u>   |           |                 |                  |                 |                |           |                          |
| Social Studies        | 7,976.45  | 53.18           | 4,966.17         | 40.71           | 27.14          | 4,092.25  | 42.18                    |
| Language Arts         | 6,917.28  | 36.41           | 10,114.99        | 53.52           | 55.27          | 7,147.84  | 73.69                    |
| Science               | 15,955.51 | 75.26           | 14,508.02        | 43.21           | 79.28          | 2,427.26  | 25.02                    |
| Modern Language       | 4,830.16  | 84.74           | 6,672.93         | 61.79           | 36.46          | 1,256.07  | 12.95                    |
| Physical Education    | 981.18    | 46.72           | 2,862.45         | 30.78           | 15.64          | 1,655.25  | 17.06                    |
| Business Education    | 17,228.62 | 80.51           | 6,143.04         | 47.25           | 33.57          | 6,040.79  | 62.28                    |
| Mathematics           | 8,497.86  | 55.54           | 8,353.96         | 50.62           | 45.65          | 4,963.20  | 51.17                    |
| Home Economics        | 1,864.27  | 93.21           | 2,254.23         | 132.60          | 12.32          | 623.82    | 6.43                     |
| Fine Arts             |           |                 | 1,477.44         | 123.12          | 8.07           |           |                          |
| Supervised Non-Instr. | 13,105.94 | 29.45           | 11,345.05        | 17.32           | 61.99          | 241.50    | 2.49                     |
| Industrial Arts       | 4,713.06  | 196.38          | 3,537.18         | 107.19          | 19.33          |           |                          |





Table 25 (continued)

| Cluster               | Harry Balfour |                 |                |
|-----------------------|---------------|-----------------|----------------|
|                       | Total         | Cost/<br>Enrol. | Cost/<br>Pupil |
| Division III          |               |                 |                |
| Social Studies        | 9,484.28      | 31.10           | 56.79          |
| Language              | 10,379.32     | 25.69           | 62.15          |
| Mathematics           | 13,860.69     | 30.73           | 82.90          |
| Science               | 8,155.09      | 58.25           | 48.83          |
| Physical Education    | 5,840.25      | 18.60           | 32.82          |
| Home Economics        | 2,994.12      | 9.02            | 17.93          |
| Industrial Arts       |               |                 |                |
| Supervised Non-Instr. | 1,763.35      | 7.62            | 10.56          |
| Business Education    |               |                 |                |
| Fine Arts             | 512.05        | 7.31            | 3.07           |
| Modern Language       |               |                 |                |



## APPENDIX B

### CURRICULUM AND PROGRAM INFORMATION

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TABLE 26.1  
BREAKDOWN OF CURRICULUM CLUSTERS FOR  
DIVISIONS I AND II

| Curriculum Cluster                                   | Courses                                                                                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Social Studies                                       | Enterprise<br>Social Studies<br>Health                                                                                                         |
| Language Arts                                        | Language<br>Printing and/or writing<br>Reading<br>Library periods<br>Story time<br>Remedial reading<br>Spelling<br>Phonics<br>Creative writing |
| Mathematics                                          | Arithmetic<br>Remedial Mathematics                                                                                                             |
| Science                                              | Science                                                                                                                                        |
| Physical Education                                   | Physical Education                                                                                                                             |
| Fine Arts                                            | Music<br>Art<br>Elementary strings                                                                                                             |
| Teacher supervised classroom<br>non-instruction time | Opening exercises                                                                                                                              |
| Supervised non-instruction<br>time                   | Supervised study                                                                                                                               |





TABLE 27

## BREAKDOWN OF CURRICULUM CLUSTERS FOR DIVISION III

| Curriculum Cluster              | Courses                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Social Studies                  | Social Studies<br>Social Studies option<br>Current Affairs option                                                                                              |
| Language Arts                   | Language<br>Reading<br>Creative writing<br>Literature<br>Remedial reading<br>Language arts<br>Developmental reading<br>Language option<br>Language arts option |
| Mathematics                     | Mathematics<br>Remedial Mathematics<br>Mathematics option<br>Math-Science option                                                                               |
| Science                         | Science<br>Science option                                                                                                                                      |
| Physical Education              | Physical Education<br>Health<br>Guidance<br>Gymnastics option                                                                                                  |
| Home Economics                  | Home Economics<br>Home Economics option                                                                                                                        |
| Industrial Arts                 | Industrial Arts                                                                                                                                                |
| Modern Languages                | French<br>French option                                                                                                                                        |
| Supervised non-instruction time | Supervised study<br>Library<br>Study Hall<br>Activities<br>Library work periods<br>Noon-hour intermurals                                                       |



| Curriculum Cluster | Courses                                                                       |
|--------------------|-------------------------------------------------------------------------------|
| Business Education | Typing<br>Opportunity typing<br>Typing option<br>Typing (special)             |
| Fine Arts          | Music<br>Drama<br>Art option<br>Art<br>Arts and Crafts option<br>Music option |
| Modern Languages   | French option<br>French                                                       |



TABLE 28

## BREAKDOWN OF CURRICULUM CLUSTERS FOR DIVISION IV

| Curriculum Clusters | Courses                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Social Studies      | Social Studies 10, 20, 30<br>Sociology 20<br>Geography 20<br>Psychology 20<br>Law 20<br>Economics 30                                                                                       |
| Language Arts       | English 10, 20, 30, 13, 23, 33<br>Literature 11, 21<br>Language 21<br>Reading 10                                                                                                           |
| Science             | Biology 10, 20, 30<br>Chemistry 10, 20, 30X<br>Physics 10, 20, 30<br>Science 11                                                                                                            |
| Modern Languages    | French 10, 20, 30                                                                                                                                                                          |
| Physical Education  | Physical Education 10, 10A, 20<br>Health and P.B. 10                                                                                                                                       |
| Business Education  | Bookkeeping 10, 20<br>Typewriting 10, 20, 30<br>Business Fundamentals 10<br>Record Keeping 10<br>Shorthand 10, 20, 30<br>Clerical Practice 20, 30<br>Accounting 30<br>Business Machines 30 |
| Mathematics         | Mathematics 10, 12, 15, 20,<br>22, 30, 31, 32                                                                                                                                              |
| Home Economics      | Foods & Nutrition 10, 20<br>Fabrics & Dress 10                                                                                                                                             |
| Industrial Arts     | I.A. General 10, 20, 11, 12                                                                                                                                                                |
| Fine Arts           | Arts 10, 20<br>Music 10<br>Dramatics 10                                                                                                                                                    |





TABLE 28 CONTD.

| Curriculum Cluster              | Course                                                                               |
|---------------------------------|--------------------------------------------------------------------------------------|
| Supervised non-instruction time | Study Hall<br>Library<br>Library work periods<br>Noon-hour intermural<br>supervision |



TABLE 29 :

PROGRAMS OFFERED IN THE DIVISION III GRADES IN THE  
COUNTY OF GRANDE PRAIRIE: 1969-1970

|                 | Grade Seven                                                                                                                      | Grade Eight                                                                                                                      | Grade Nine                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Core Subjects   | Language Arts<br>Mathematics<br>Science<br>Social Stud.<br>Phys. Ed.                                                             | Language Arts<br>Mathematics<br>Science<br>Social Stud.<br>Phys. Ed.                                                             | Language Arts<br>Mathematics<br>Science<br>Social Stud.<br>Phys. Ed.                                                    |
| Group A Options | Art (L3) M<br>Art option<br>Arts & Crafts (H4)<br>Drama (H2)<br>Music<br>Appreciation<br>Home Ec. (H3) M<br>Industrial Arts (H1) | Art (L2) M<br>Art option<br>Drama (H3)<br>Music<br>Appreciation<br>Home Ec. (H1)M<br>Industrial Arts (H2)                        | Art (L1)<br>Art option<br>Drama (H2)<br>Home Ec. (H1)<br>Economics M<br>Industrial Arts (H3)                            |
| Group B Options | French<br>Option (L4)<br>Reading M<br>Science M<br>Soc. Stud.<br>Creative Writing (L1)<br>World Affairs 1 (L2)                   | French<br>Option<br>Reading (H4) M<br>Science M<br>Mathematics<br>Creative Writing (L1)<br>Soc. Stud. (L4)<br>World Affairs (L3) | French<br>French Option (L4)<br>Reading H4(M)<br>World Affairs (L2)<br>Mathematics (L3)(M)<br>Science<br>Soc. Stud. (M) |

The figures in parenthesis indicate whether the option course is (L) or high (H) on per pupil cost, as well as the most commonly taken (M). The figure following the latter indicates rank. Therefore (L2) indicates that course is the second lowest per pupil cost course while (H3) is the third highest.

For purposes of Table XVI the costs of Home Economics and Industrial Arts have been averaged assuming one student cannot take both. This total is always included in the most common option columns as the combined total indicating the option enrolment.



ELECTIVES USED IN DETERMINING DIVISION IV MINIMUM AND  
MAXIMUM COST PROGRAMS

| Grade Ten                |         | Grade Eleven    |         | Grade Twelve    |         |
|--------------------------|---------|-----------------|---------|-----------------|---------|
| Special Interest Courses |         |                 |         |                 |         |
| Reading 10(3)            | \$32.68 | Phys. Ed. 20(5) | \$41.66 | Phys. Ed. 30(5) | \$18.46 |
| Typing 10(5)             | 33.47   | Litera. 21(3)   | 43.77   | Economics 30(5) | 72.98   |
|                          |         | Sociol. 20(5)   | 57.47   |                 |         |
|                          |         | Psych. 20       | 55.39   |                 |         |
| Fine Arts Courses        |         |                 |         |                 |         |
| Art 10(5)                | 123.12  | Art 20(5)       | 123.12  |                 |         |
| Industrial Arts Courses  |         |                 |         |                 |         |
| I.A. General 10          |         |                 |         |                 |         |
| (5)                      | 396.82  |                 |         |                 |         |
| Home Economics Courses   |         |                 |         |                 |         |
| Fab. & Dress 10          |         |                 |         |                 |         |
| (5)                      | 94.50   |                 |         |                 |         |
| Food & Nut. 10           |         |                 |         |                 |         |
| (5)                      | 132.60  |                 |         |                 |         |





APPENDIX C

INDIRECT AND IMPLEMENTARY COSTS  
INFORMATION



TABLE 31

## BREAKDOWN OF SELECTED INDIRECT, INSTRUCTIONAL COSTS TO SCHOOLS FOR DIVISIONS I AND II

| Indirect<br>Cost<br>Category                       | Valhalla |         | La Glace |        | Teepee Creek |        | Bezanson |         | Elmworth |        | Wembley |        | Totals     |
|----------------------------------------------------|----------|---------|----------|--------|--------------|--------|----------|---------|----------|--------|---------|--------|------------|
|                                                    | Div I    | Div II  | Div I    | Div II | Div I        | Div II | Div I    | Div II  | Div I    | Div II | Div I   | Div II |            |
| Phys. Ed.<br>Equip.                                | 680.40   | 703.08  | 67.08    | 59.34  | 66.60        | 65.12  | 42.75    | 61.56   | 75.11    | 69.02  | 67.32   | 74.25  | \$2,031.63 |
| Science<br>Equip.                                  | 272.10   | 281.17  | 185.64   | 164.22 | 394.20       | 385.44 | 295.25   | 425.16  | 175.75   | 161.50 | 429.08  | 473.25 | 3,642.76   |
| Totals                                             | 952.50   | 984.25  | 252.72   | 223.56 | 460.80       | 450.56 | 338.00   | 486.72  | 250.86   | 230.52 | 496.40  | 547.50 | \$5,674.39 |
| <hr/>                                              |          |         |          |        |              |        |          |         |          |        |         |        |            |
| Beaverlodge El.   Sexsmith   Hythe   Harry Balfour |          |         |          |        |              |        |          |         |          |        |         |        |            |
| Phys. Ed.<br>Equip.                                | 274.95   | 294.45  | 182.16   | 146.97 | 225.70       | 192.40 | 557.70   | 503.62  |          |        |         |        | 2,377.95   |
| Science<br>Equip.                                  | 865.74   | 927.14  | 395.12   | 318.79 | 422.12       | 359.84 | 645.15   | 582.59  |          |        |         |        | 4,516.49   |
| Totals                                             | 1140.69  | 1221.59 | 577.28   | 465.76 | 647.82       | 552.24 | 1202.85  | 1086.21 |          |        |         |        | \$6,894.44 |



TABLE 32

Indirect and Implementary Costs per Student for Each Grade Level  
In the County of Grande Prairie: 1969-1970

| Levels   | Classification Categories |       |        |        |        |        |        |        |        |        |  |  |
|----------|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|          | 100a)                     | 100)b | 200b)1 | 200b)2 | 200b)3 | 200c)1 | 200c)2 | 200c)3 | 200c)5 | 200c)6 |  |  |
| Grade 1  | 13.88                     | 6.83  | 19.33  | 9.71   | 2.75   | 4.62   | 6.08   | 9.39   | .31    | 4.06   |  |  |
| Grade 2  | 13.82                     | 7.34  | 26.71  | 9.84   | 2.41   | 3.73   | 6.12   | 10.21  | .17    | 4.11   |  |  |
| Grade 3  | 13.88                     | 8.27  | 29.19  | 9.74   | 2.19   | 5.69   | 6.05   | 9.81   | .17    | 4.18   |  |  |
| Grade 4  | 14.28                     | 7.42  | 26.60  | 9.96   | 2.10   | 4.85   | 6.07   | 10.09  | .15    | 4.13   |  |  |
| Grade 5  | 13.79                     | 7.37  | 25.95  | 9.12   | 2.37   | 4.43   | 6.08   | 9.94   | .17    | 4.15   |  |  |
| Grade 6  | 13.93                     | 7.40  | 19.44  | 10.00  | 2.35   | 4.65   | 6.06   | 10.00  | .17    | 4.14   |  |  |
| Grade 7  | 13.94                     | 7.41  | 28.96  | 10.22  | 2.21   | 4.76   | 5.74   | 9.53   | .31    | 4.37   |  |  |
| Grade 8  | 13.89                     | 7.31  | 28.49  | 9.95   | 2.44   | 4.76   | 5.78   | 9.18   | .29    | 4.32   |  |  |
| Grade 9  | 14.03                     | 6.97  | 29.23  | 10.22  | 2.27   | 4.73   | 5.32   | 8.94   | .32    | 4.41   |  |  |
| Grade 10 | 13.67                     | 6.85  | 35.84  | 10.64  | .82    | 4.90   | 5.31   | 9.19   | .53    | 5.00   |  |  |
| Grade 11 | 13.54                     | 6.52  | 36.38  | 10.51  | .28    | 4.94   | 5.28   | 8.86   | .50    | 5.13   |  |  |
| Grade 12 | 13.41                     | 6.55  | 37.66  | 9.29   | .54    | 5.00   | 5.42   | 8.91   | .58    | 4.86   |  |  |





TABLE 32 CONT.

## Classification Categories

| Levels   | 500    | 600a) | 600b) | 600c) | 700   | 800  | 1400 | Total  |
|----------|--------|-------|-------|-------|-------|------|------|--------|
| Grade 1  | 133.45 | 21.11 | 31.86 | 3.82  | 25.60 | 6.41 | 7.86 | 311.13 |
| Grade 2  | 127.74 | 21.84 | 32.07 | 3.91  | 25.81 | 6.66 | 8.33 | 310.46 |
| Grade 3  | 127.53 | 21.91 | 31.38 | 3.89  | 25.31 | 6.85 | 7.34 | 311.48 |
| Grade 4  | 130.49 | 22.18 | 33.24 | 3.88  | 24.51 | 6.63 | 7.71 | 314.29 |
| Grade 5  | 129.65 | 22.05 | 32.00 | 3.81  | 25.99 | 6.62 | 7.57 | 311.06 |
| Grade 6  | 129.32 | 21.77 | 32.12 | 3.85  | 25.80 | 7.00 | 7.54 | 305.54 |
| Grade 7  | 133.70 | 23.35 | 34.03 | 4.00  | 25.74 | 5.14 | 8.41 | 314.85 |
| Grade 8  | 131.80 | 23.15 | 33.42 | 3.33  | 25.75 | 5.25 | 8.57 | 317.60 |
| Grade 9  | 133.89 | 23.17 | 32.41 | 3.99  | 25.54 | 5.38 | 8.26 | 319.00 |
| Grade 10 | 110.12 | 23.38 | 30.48 | 4.03  | 23.50 | 6.13 | 5.48 | 295.86 |
| Grade 11 | 112.43 | 23.64 | 31.11 | 4.00  | 22.90 | 5.93 | 6.59 | 298.54 |
| Grade 12 | 109.80 | 23.89 | 30.11 | 4.20  | 20.07 | 5.55 | 6.67 | 292.51 |



APPENDIX D

DISTRICT INFORMATION OTHER THAN FINANCIAL



TABLE 33

COUNTY SUMMARY OF PUPIL AND FULL-TIME EQUIVALENT  
FACULTY BREAKDOWN

| Grade          | Number of<br>Registrations | Total<br>Division | Grade         | Number of<br>Registrations | Total<br>Division |
|----------------|----------------------------|-------------------|---------------|----------------------------|-------------------|
| 1              | 267                        | 773               | Sr. Opp.      |                            |                   |
| 2              | 263                        |                   | 7             | 256                        |                   |
| 3              | 243                        |                   | 8             | 296                        | 821               |
|                |                            |                   | 9             | 269                        |                   |
| 4              | 230                        | 741               | 10            | 196                        |                   |
| 5              | 270                        |                   | 11            | 153                        | 498               |
| 6              | 241                        |                   | 12            | 149                        |                   |
| Jr. Opp.       |                            |                   |               |                            |                   |
| Total Students | 2,845                      |                   | Total Faculty | 146.9                      |                   |





TABLE 34

## PUPIL AND FULL-TIME EQUIVALENT FACULTY BREAKDOWN BY SCHOOLS

| Gr.            | Valhalla    |      | La Glace    |      | Teepee Creek |      | Bezanson    |      | Elmworth    |      | Wembley     |      |
|----------------|-------------|------|-------------|------|--------------|------|-------------|------|-------------|------|-------------|------|
|                | Div. School |      | Div. School |      | Div. School  |      | Div. School |      | Div. School |      | Div. School |      |
|                | En.         | Ttl. | En.         | Ttl. | En.          | Ttl. | En.         | Ttl. | En.         | Ttl. | En.         | Ttl. |
| 1              | 10          | 19   | 17          | 13   | 11           | 13   | 19          | 13   | 19          | 13   | 19          | 13   |
| 2              | 10          | 16   | 18          | 45   | 6            | 25   | 26          | 37   | 26          | 68   | 26          | 68   |
| 3              | 10          | 17   | 10          |      | 8            |      | 23          |      | 23          |      | 23          |      |
| 4              | 14          | 13   | 14          | 14   | 14           | 14   | 12          | 12   | 19          | 12   | 19          | 12   |
| 5              | 7           | 31   | 19          | 46   | 9            | 36   | 30          | 34   | 30          | 75   | 30          | 75   |
| 6              | 10          | 14   | 16          |      | 13           |      | 26          |      | 26          |      | 26          |      |
| Opp.           |             | 93   | 149         |      | 131          |      | 103         |      | 114         |      | 269         |      |
| 7              | 11          | 14   | 15          |      | 12           |      | 17          |      | 28          |      | 28          |      |
| 8              | 12          | 32   | 19          | 51   | 16           | 42   | 19          | 43   | 30          | 83   | 30          | 83   |
| 9              |             | 18   | 11          |      | 20           |      | 7           |      | 25          |      | 25          |      |
| Opp.           |             |      |             |      |              |      |             |      |             |      | 293         |      |
| 10             |             |      |             |      |              |      |             |      | 26          |      | 26          |      |
| 11             |             |      |             |      |              |      |             |      | 17          | 43   | 17          | 43   |
| 12             |             |      |             |      |              |      |             |      |             |      |             |      |
| Direct Faculty | 6.3         | 7.1  | 6.2         | 5.3  | 6.5          | 12.7 |             |      |             |      |             |      |



TABLE 34 CONTD.

| Gr.            | Beaverlodge Elem. |      |      | Sexsmith    |     |      | Beaverlodge Hg. |     |      | Hythe       |     |      | Harry Balfour |      |      |
|----------------|-------------------|------|------|-------------|-----|------|-----------------|-----|------|-------------|-----|------|---------------|------|------|
|                | Div. School       | En.  | Ttl. | Div. School | En. | Ttl. | Div. School     | En. | Ttl. | Div. School | En. | Ttl. | Div. School   | En.  | Ttl. |
| 1              | 41                | 30   |      |             |     |      |                 | 40  |      |             | 67  |      |               |      |      |
| 2              | 50                | 26   | 141  | 88          |     |      |                 | 45  | 122  |             | 52  | 165  |               |      |      |
| 3              | 50                | 32   |      |             |     |      |                 | 37  |      |             | 46  |      |               |      |      |
| 4              | 50                | 21   |      |             |     |      |                 | 29  |      |             | 44  |      |               |      |      |
| 5              | 52                | 28   | 151  | 71          |     |      |                 | 41  | 104  |             | 57  | 149  |               |      |      |
| 6              | 49                | 22   | 292  |             | 434 |      |                 | 34  |      |             | 48  |      |               |      |      |
| Opp.           |                   |      |      |             |     |      |                 |     |      |             |     |      |               |      |      |
| 7              |                   | 28   |      |             | 53  |      |                 | 28  |      |             | 50  |      |               |      |      |
| 8              |                   | 38   | 100  |             | 51  | 158  |                 | 34  | 103  |             | 67  | 167  |               |      |      |
| 9              |                   | 34   |      |             | 54  |      | 341             | 41  |      | 426         | 50  |      | 481           |      |      |
| Opp.           |                   |      |      |             |     |      |                 |     |      |             |     |      |               |      |      |
| 10             |                   | 64   |      |             | 67  |      |                 | 39  |      |             |     |      |               |      |      |
| 11             |                   | 64   | 175  |             | 37  | 183  |                 | 35  | 97   |             |     |      |               |      |      |
| 12             |                   | 47   |      |             | 79  |      |                 | 23  |      |             |     |      |               |      |      |
| Direct Faculty |                   |      |      |             |     |      |                 |     |      |             |     |      |               |      |      |
|                |                   | 14.9 |      | 24.4        |     | 19.6 |                 |     | 23.0 |             |     |      |               | 20.9 |      |



TABLE 35.

QUALIFICATIONS, EXPERIENCE AND AVERAGE SALARY  
OF TEACHERS BY DISTRICT

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|                                          |            |
|------------------------------------------|------------|
| Total Number of Teachers                 | 146.9      |
| Average Salary                           | \$7,940.00 |
| Average Experience (for salary purposes) | 8.63 years |
| Average Training (for salary purposes)   | 2.8 years  |

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TABLE 36

FLOOR AREAS AND NUMBER OF ROOMS AT BUILDINGS MAINTAINED AND  
OPERATED BY THE COUNTY OF GRANDE PRAIRIE: 1969-1970

| Building               | Area in Square Feet | Number of<br>Instructional Areas <sup>a</sup> |
|------------------------|---------------------|-----------------------------------------------|
| Beaverlodge Elementary | 29,525.0 sq. ft.    | 14 rooms                                      |
| Beaverlodge High       | 40,525.5            | 22                                            |
| Bezanson               | 14,280.0            | 7                                             |
| Elmworth               | 18,638.0            | 9                                             |
| Harry Balfour          | 42,208.5            | 22                                            |
| Hythe                  | 47,206.0            | 26                                            |
| La Glace               | 19,356.0            | 10                                            |
| Sexsmith               | 52,063.0            | 25                                            |
| Teepee Creek           | 11,867.0            | 7                                             |
| Valhalla               | 12,815.0            | 8                                             |
| Wembley                | 26,400.5            | 16                                            |
| Office                 | 4,300.0             |                                               |

<sup>a</sup>All schools have one gymnasium.



APPENDIX E

DATA GATHERING FORMS







# INSTRUCTION 200 a) DIRECT SALARIES (CLASSROOM TEACHER'S WORKLOAD SURVEY)

NAME

# SCHOOL,

[illegible]

## NOTES

- (1) Opening exercises, if any, shall be treated as a course taught if they take 5 minutes or more. If less, ignore.
- (2) Example of Total Time: 8 periods of 40 minutes for 5 days =  $8 \times 40 \times 5 = 1,000$  minutes.





INSTRUCTION 200 b)      INDIRECT SALARIES (FULL-TIME SUPERVISORS, SCHOOL CLERICAL STAFF, INTERNS)

|            |                |              |
|------------|----------------|--------------|
| NAME _____ | POSITION _____ | SCHOOL _____ |
| _____      |                |              |

ESTIMATION OF TIME SPENT BY GRADE DIVISIONS AND PROGRAMS

NOTE -    It is recommended that the following percentages be estimated from a one-week period.

|                                                          |              |       |                                                                          |              |         |
|----------------------------------------------------------|--------------|-------|--------------------------------------------------------------------------|--------------|---------|
| My Time is Divided<br>Among the Divisions as<br>Follows: | Div. I       | _____ | If in Div. IV<br>My Time is Divided<br>Among the Programs<br>as Follows: | Academic     | _____   |
|                                                          | Div. II      | _____ |                                                                          | General      | _____   |
|                                                          | Div. III     | _____ |                                                                          | Commercial   | _____   |
|                                                          | Div. IV      | _____ |                                                                          | Vocational   | _____   |
|                                                          | Total - 100% |       |                                                                          | Other        | Specify |
|                                                          |              |       |                                                                          | Total - 100% |         |







**B29959**